900IP Outdoor H.264
Car license Plate
IP Traffic Camera
User Manual

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1 Before you use this product

Safety Notes

All the safety and operation instructions should be read before the unit is used.

Location

Ensure the unit is ventilated to protect from overheating.

Ensure there is a 3cm gap between on both side of the unit

This unit is stored in low humidity and dust free area. Avoid places like damp basements or dusty hallways

Ensure the unit is not located where it's likely to be subject to mechanical shock

Servicing

Do not attempt to service this unit yourself as opening or removing the covers may expose you to dangerous voltage or other hazards

Ventilation

Ensure the unit is ventilated to protect from overheating as detailed above.

Warning: To prevent fire or shock hazard, do not expose this unit to rain or moisture. The lighting flash with arrowhead symbol within an equilateral triangle is indented to alert the user of this unit there are dangerous voltages within the enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

Lightning Strike

The unit has some in-built protection for lightning strike, however it is recommended that isolation transformers be fitted to the system in areas where lightening is a common occurrence.

2 Package Content

	Outdoor IP Camera		Software Compact Disk	✓ User Manual ✓ Tool (DIVX) ✓ Management software
	PoE Injector (For PoE IP cameras only)		Power Adaptor	12V DC Power adaptor for IP camera (without PoE) 48V DC 1A DC Power Adaptor (For PoE injector)

3 Physical characteristic

1 Ethernet: The IP camera connects to the LAN or WAN by a standard RJ45 connector. IP camera can auto detect the speed of local network segment (10Base-T/100Base-TX Ethernet)
2 White connector: audio out, connect the speaker
3 Reset: Reset the system or restore the factory settings including the network settings
4 Power: DC 12V input. The LED indicator will light up after IP Camera has successfully completed the boot process.
5 12V Power out: Provide 12V power to other device, like the smoke sensor or sound amplifier. **Don't use if not professional.**
6 Black connector: audio line in, connect the sound amplifier.

7 BNC: The IP camera supports 1 channel analog video output.
8 USB: Extension interface.
9 OSD menu button: setup the camera menu such as Shutter speed, White balance, AGC, day/night and so on.

4 Installation

4.1 Hardware Installation

4.1.1 Connect the Ethernet

Depending on the user's application, an Ethernet cable is necessary. The Ethernet cable should meet the specs of UTP Category 5 and not exceed 100 meters in length. Make sure the Ethernet is firmly connected to a switch hub. The network status LED is steady orange.

4.1.2 Connect the power

Plug in the power adapter.

4.1.3 Connect External Device

4.1.3.1 Connect alarm (optional)

Pink, pink /white: alarm output
Purple/ white: alarm input
Black: ground

4.1.3.2 Connect RS485 (optional)

Connect TX+ of PTZ unit to **485+ (Red** cable) of IP camera, connect TX- of PTZ unit to **485-(white** cable) of IP camera.

4.1.3.3 Connect Audio

Aout: Connect sound amplifier to A-in Interface, connect speaker in A-out interface

4.1.3.4 SD Card(optional)

Insert SD card into SD card slot when power off. Doesn't support hot swap the SD card.

4.1.4 Connect PoE IP Camera through Power Over Ethernet (PoE)

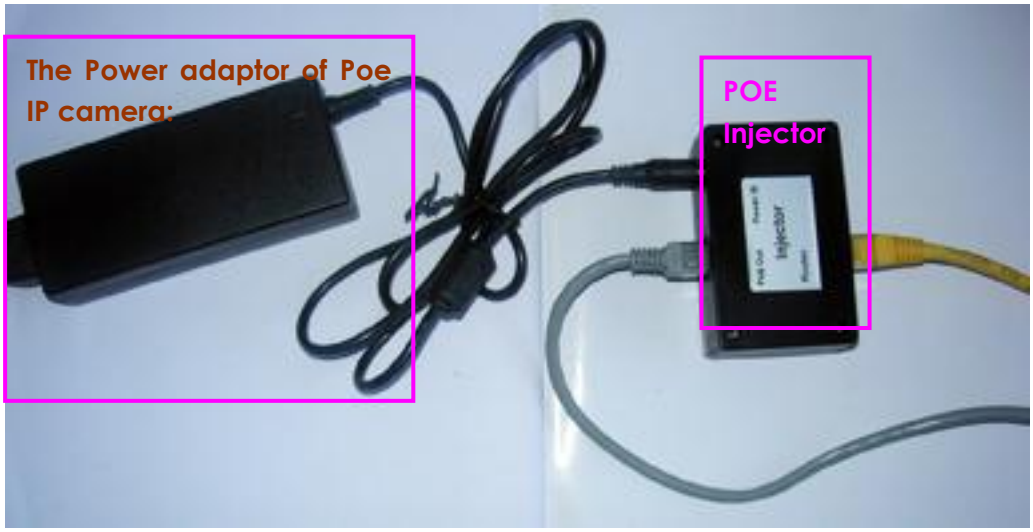
When using a PoE-enable switch

The PoE IP camera allows it to be powered by a single Ethernet cable. If your switch/router supports PoE, refer to the following instructions to connect the Ip camera to a PoE-enabled switch/router.

Note: Wireless Alarm PoE IP camera use the higher consumption PoE module which can transmit up to 100Meters which is better than normal PoE module which only transmits 30-60Meters. Please use the mid span PoE switch with 48V output. Network signal is on the data pairs' pins 1,2,3 &6. Power is on data pairs' pins 4,5,7 &8. 4,5 for 48V+, 7,8 for 48V-.

When using a PoE-disable switch

If you switch/router does not support PoE, use a PoE injector to connect between the IP camera and non-PoE switch/router.



Make sure the power is off before you do the following steps:

Step1: Insert the **Power adaptor(48V 1A)** of PoE IP Camera to the "**Power in"** of the 'PoE Injector"

Step2: Connect the "**PoE Out**" of the "PoE Injector" to the "**PoE IP Camera**"

Step3: Connect the **Yellow network cable** from "PoE Injector" to the "**Router**"

Step4: Then power on the **Power Adaptor(48V 1A) of Poe IP Camera**

4.2 Software Installation

Our IP camera provides access through Internet Explorer or Management Software.

You need to set up the network settings and the IP address for the IP device. Please make sure all connections are properly connected, then follow the procedures below.

4.2.1 Using Web Browsers

1 Setup your PC network

The IP address for your PC must be within the same subnet as the IP camera. You need to match the TCP/IP Settings between PC and IP Camera before you can access it through IE.

2 Setup IP Camera's IP address

The IP camera's IP address can be assigned manually or acquired automatically by network service (DHCP). If it acquired the IP address by using the DHCP service, please use the management software bundled in the CD to find the IP address for all IP cameras. The factory default setting is assigned manually IP address.

3 Setup your PC network

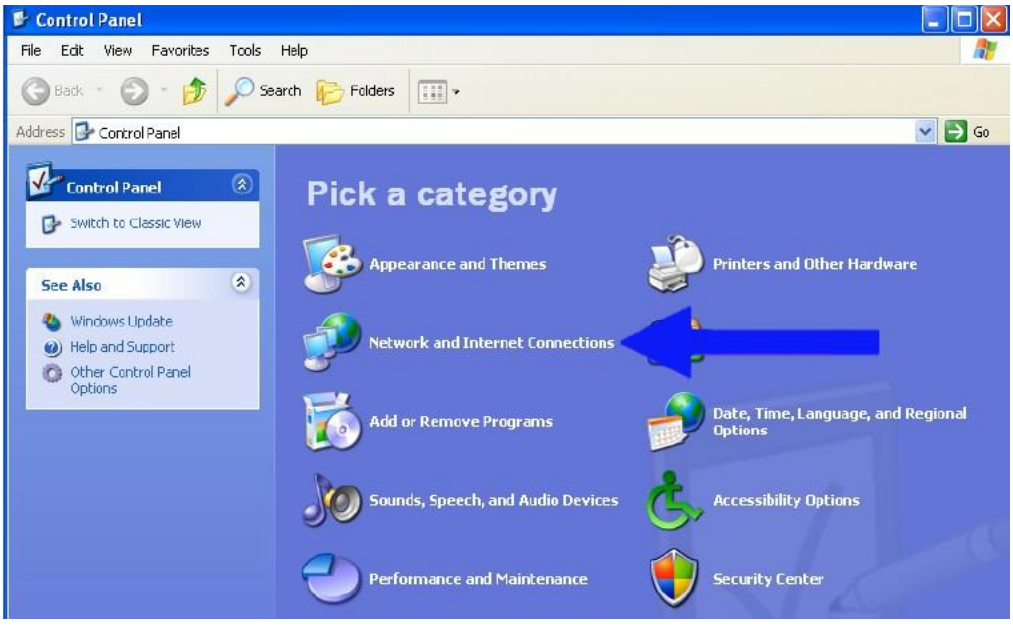
To set up the network of IP camera via a PC, you have to change the TCP/IP settings of the PC.
The following are the default network settings of IP camera.
IP address:192.168.188.188
Subnet mask:255.255.255.0

To access the IP camera, the IP address of the PC should match the address below.
IP address:192.168.188.XXX
Subnet mask:255.255.255.0

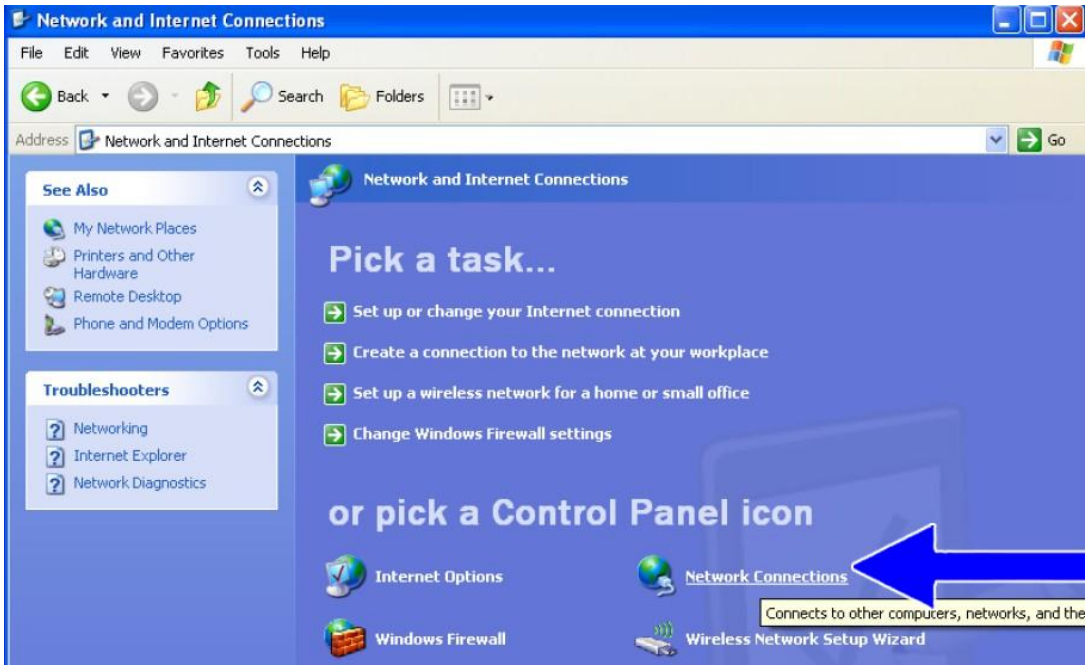
Note: XXX should be a number from 1 to 254 except 188, which is used by the IP camera. Please also make sure that no two devices use the same IP address in the same network.

The procedures below are the setup procedure on Windows XP.
Step 1: Start up your PC
Step 2:Click the "Start" and select the "Control panel"

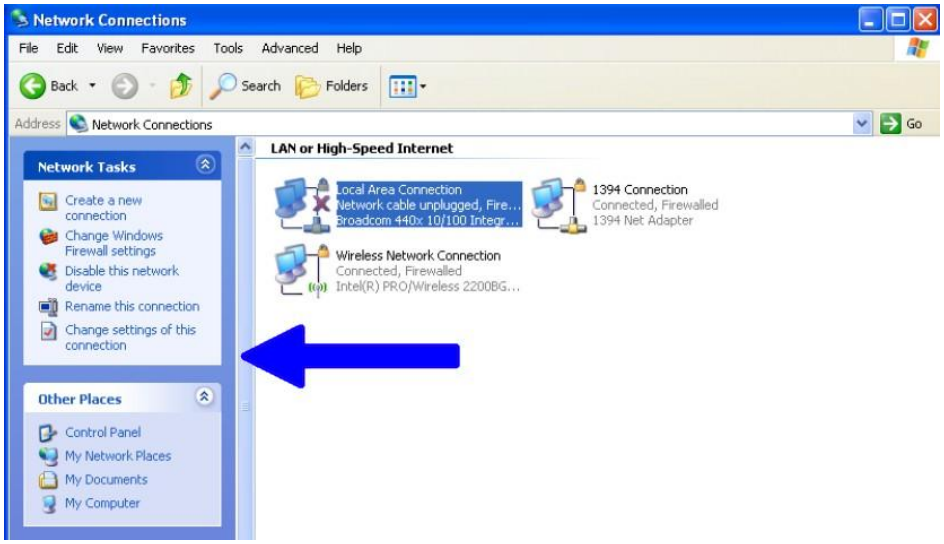
Step 3:Double click the "Network and Internet connections" icon.



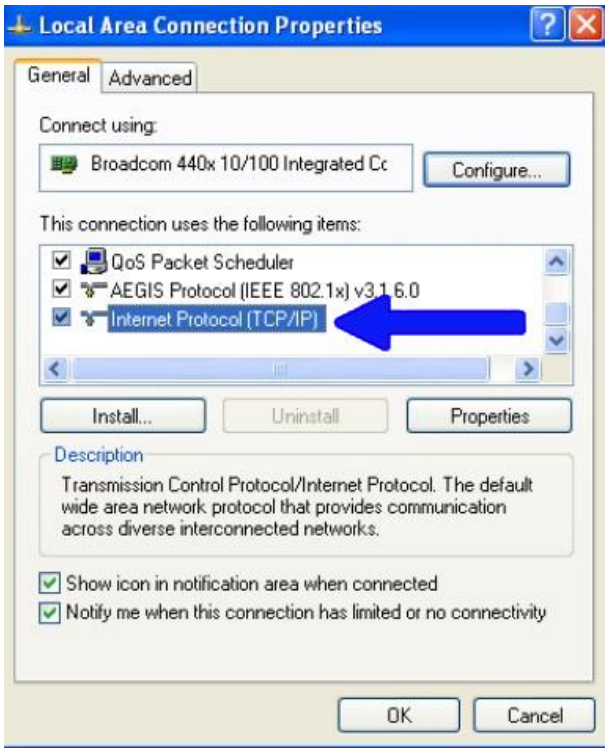
Step 4:Double click the "Network connection" icon



Step 5:Click "Local Area Connections", then click " Change settings of this connection" in the network task menu.



Step 6: Click "Internet Protocol (TCP/IP)", and click the click the "Properties" button. If you have both IPv4 and IPv6, choose IPv4.



Step 7: Click the "Use the following IP address" radio button and enter the IP address and the subnet mask.

Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 0 . 101
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

To access the IP camera, the IP address of the PC should match the address below.
IP address: 192.168.188.XXX
Subnet mask: 255.255.255.0

Note: XXX should be a number from 1 to 254 except 188, which is used by the IP camera. Please also make sure that no two devices use the same IP address in the same network.

Step 8: Click the "Ok" button and window dialog box closes.

4 Configure the IP camera

This section describes how to configure the IP camera. The administrator has unlimited access to all settings.

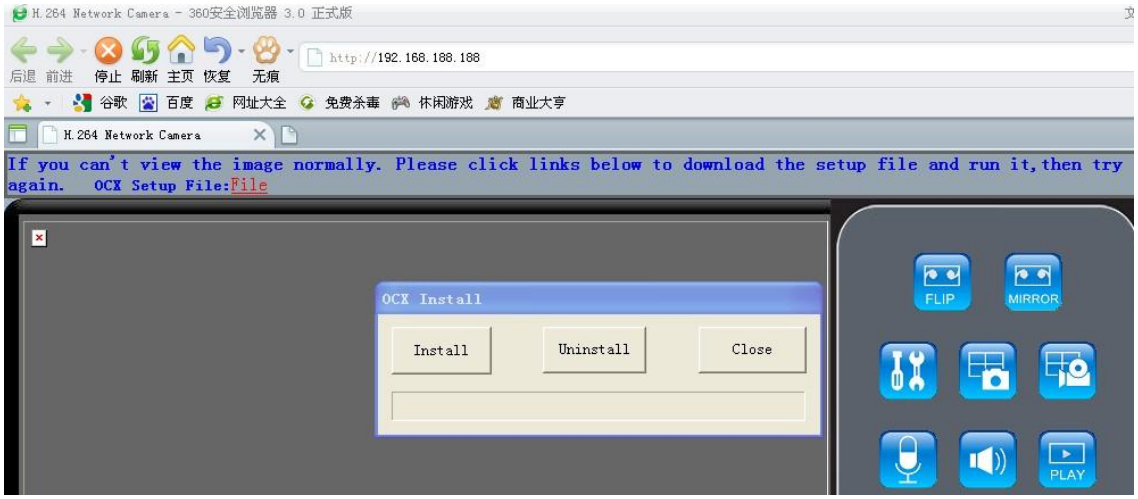
Following the procedures below to configure the IP camera.

Step 1: Open your web browser (Microsoft Internet Explorer). Check your Internet Explorer version is 6.0 or above version. If not, please update your IE to the higher version.

Step 2: Enter the IP address of Ip camera in the address field. Press Enter.

The default IP address is 192.168.188.188.

Step 3: The login page is now displayed as below

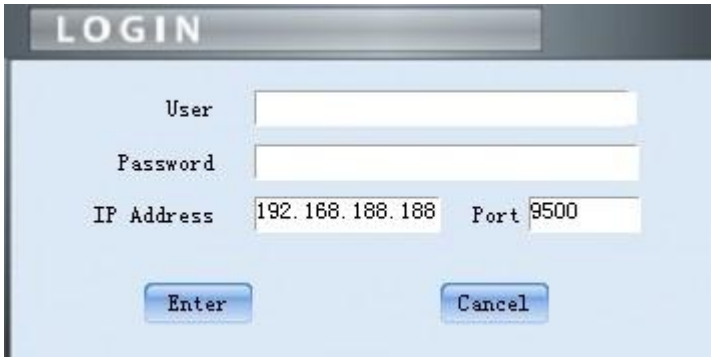

H.264 Network Camera - 360安全浏览器 3.0 正式版
后退 前进 停止 刷新 主页 恢复 无痕
http://192.168.188.188
谷歌 百度 网址大全 免费杀毒 休闲游戏 商业大亨
H.264 Network Camera
If you can't view the image normally. Please click links below to download the setup file and run it,then try again. OCX Setup File:File
OCX Install
Install
Uninstall
Close
FLIP
MIRROR
PLAY

Step 4: Click 『Install』to install the OCX.

If it does not pop up the OCX install dialog, Click 『File』to download the OCX.

Then, it will pop up a new dialog, click『Run』or『Save』to download OCX. After download it , double-click the downloaded file "DVSClientx.exe" to install it.

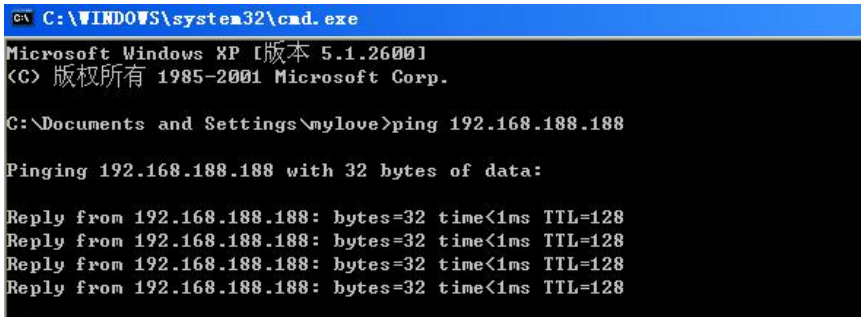
Step 5: Refresh your web browser
Step 6: Enter the IP address.
It will ask for the password and user name.



Enter user name: admin（default setting for administrator）and password： admin（default setting for administrator）
Step 7: Click the "Enter" button to login or click the "cancel" button to close the login page.

Once you log in successfully, the "video display page" will be shown.

Skill:
Test network connection between IP camera and PC successfully or not.


C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [版本 5.1.2600]
(C) 版权所有 1985-2001 Microsoft Corp.
C:\Documents and Settings\mylove>ping 192.168.188.188
Pinging 192.168.188.188 with 32 bytes of data:
Reply from 192.168.188.188: bytes=32 time<1ms TTL=128
Reply from 192.168.188.188: bytes=32 time<1ms TTL=128
Reply from 192.168.188.188: bytes=32 time<1ms TTL=128
Reply from 192.168.188.188: bytes=32 time<1ms TTL=128

In WINDOWS, click<Start→run→cmd，you can see the DOS window and input "192.168.188.188". That proves IP camera or NVS is working if the mention is same to above picture.

4.2.1.1 Live view over IE

In the Liveview interface, User can do the operations as snapshot, record, talk, pan tilt zoom control.

Click to start manual record, and re-click to stop manual record.

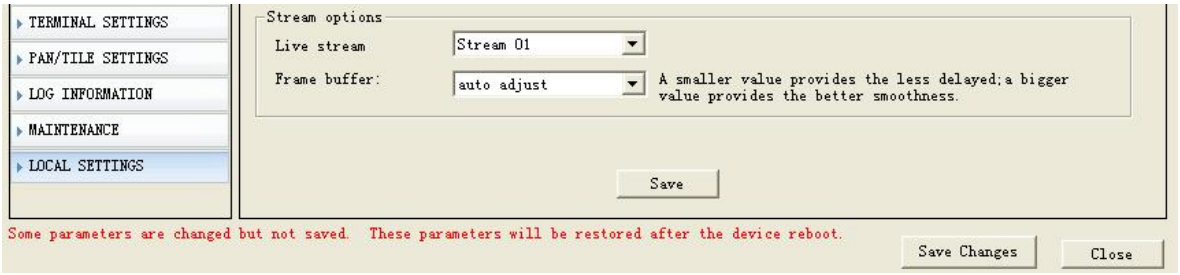
Click to capture and save still images.

Click to talk to people around the IP camera. Audio will project from the external speaker connected to the IP camera. Click this button again to end talking transmission.

Click to turn on/off the volume on the local computer.

Click to control PTZ. Turn up, down, left, right, automatic, call preset, set preset point.

4.2.1.2 Live view setting



『Live Stream』Live stream can set to Stream 01 mode or Stream 02 mode.
IPTRAFFIC Series IP Camera support dual streaming for live view, local storage and network transmission. As the dual stream setting, you can refer 5.1.1 Video setting

4.2.2 CMS Installation

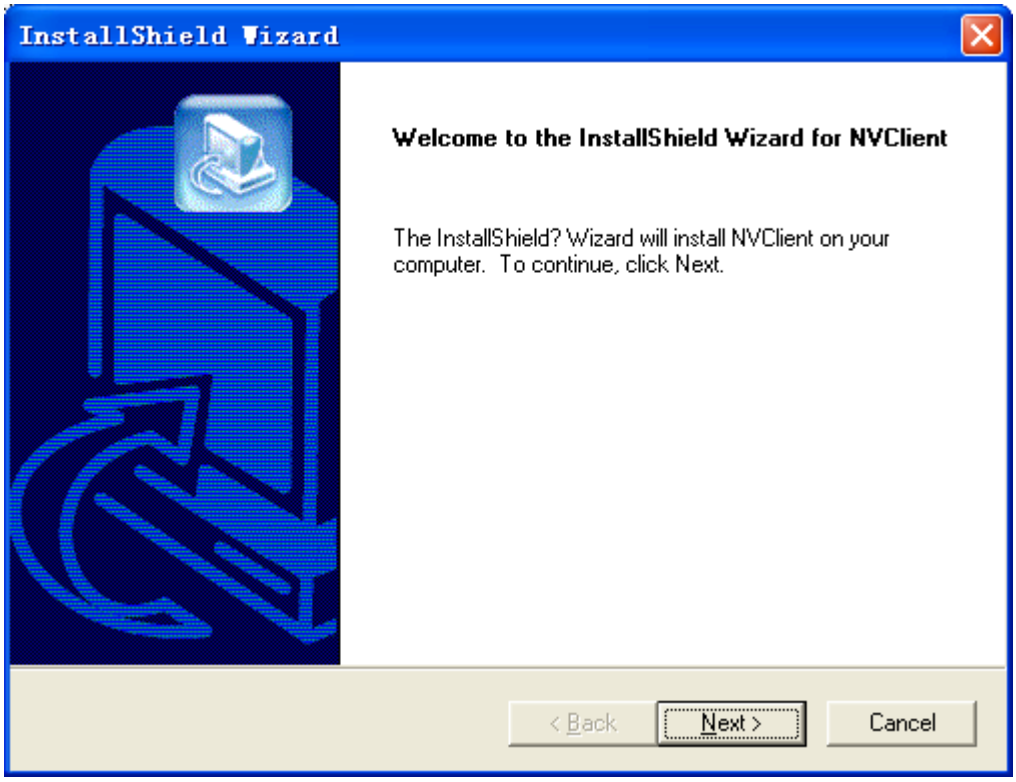
4.2.2.1 PC requirements

Basic Configuration of Client PC
Motherboard: Pentium IIII 2.8GHz
Memory: 512M
Display Card: TNT2

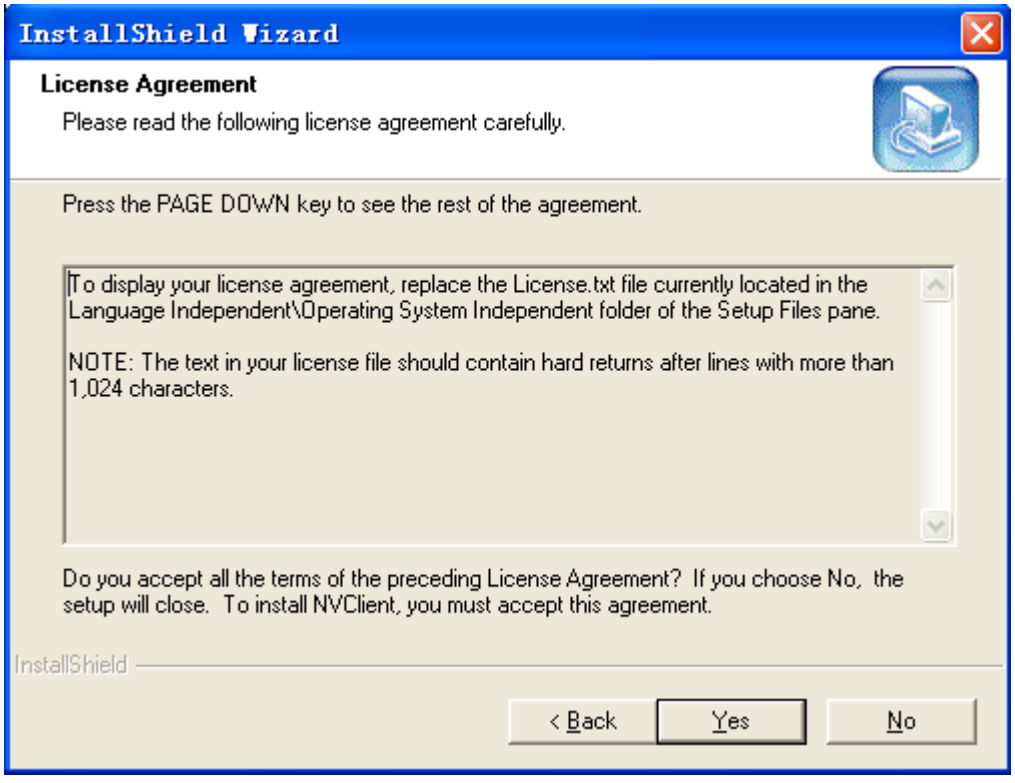
Recommended Configuration of Client PC
Motherboard: Dual-core 2.6GMhz
Memory: 1G
Display Card: George FX5200 or ATI 7000(9000) Series 256MB

4.2.2 CMS Installation

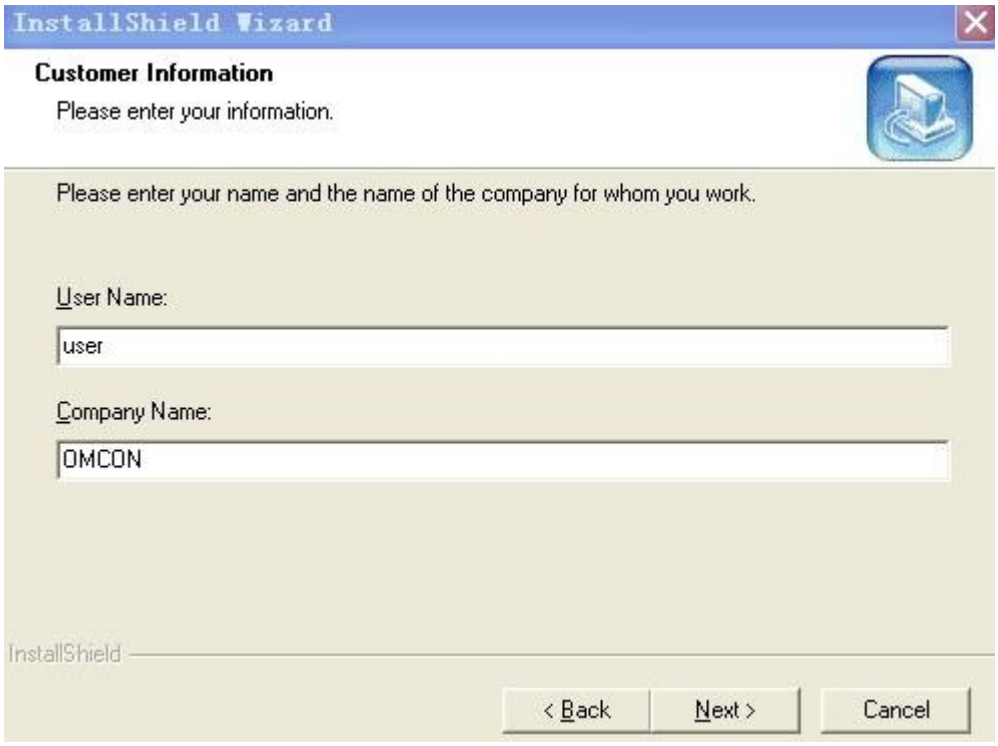
Run setup on windows, double click your left mouse button, it will be an "installation wizard" dialogue box, as following figure:


InstallShield Wizard
Welcome to the InstallShield Wizard for NVClient
The InstallShield? Wizard will install NVClient on your computer. To continue, click Next.
< Back
Next >
Cancel

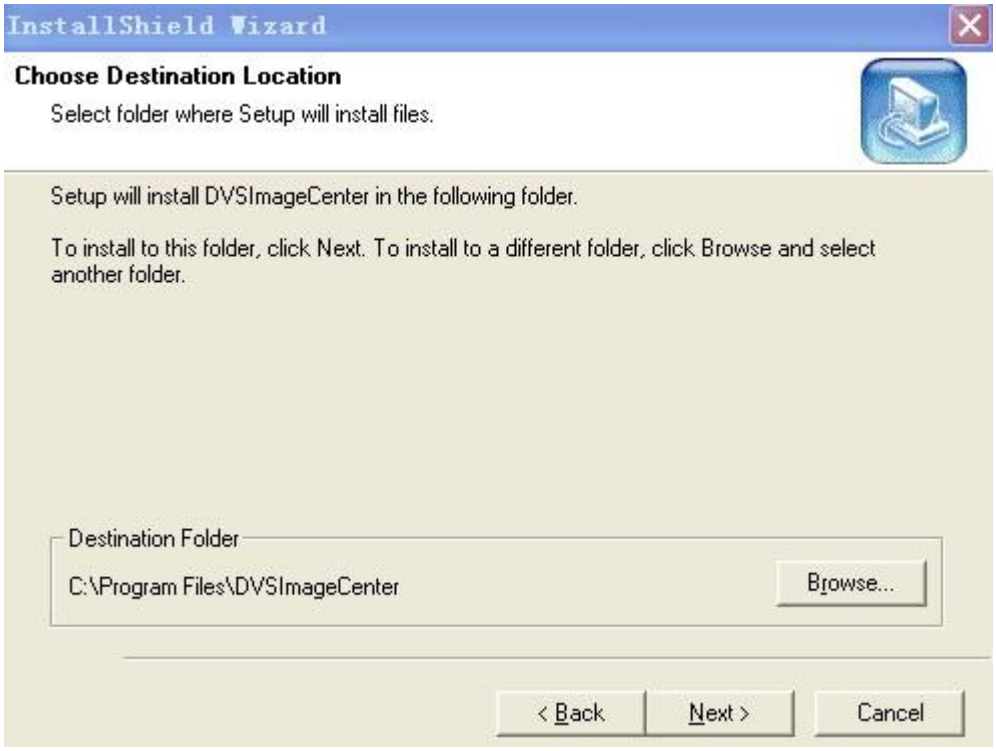
Click "next", there will be a dialogue box:


InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
Press the PAGE DOWN key to see the rest of the agreement.
To display your license agreement, replace the License.txt file currently located in the Language Independent\Operating System Independent folder of the Setup Files pane.
NOTE: The text in your license file should contain hard returns after lines with more than 1,024 characters.
Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install NVClient, you must accept this agreement.
InstallShield
< Back
Yes
No

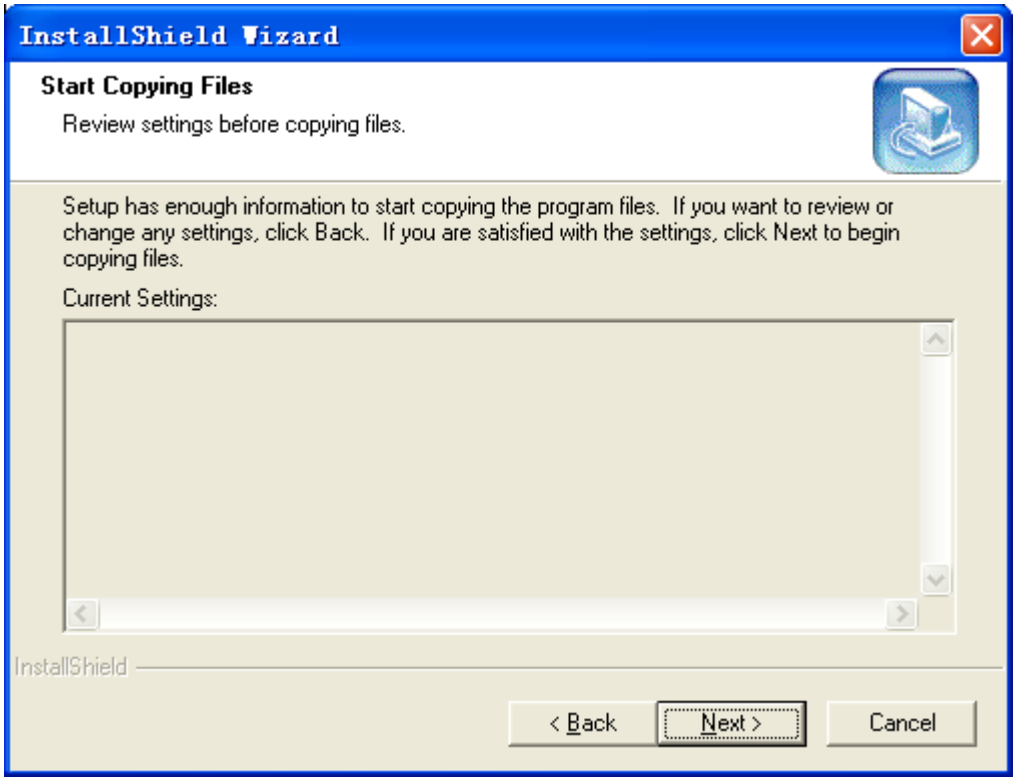
Click "Yes", there will be a dialogue box:



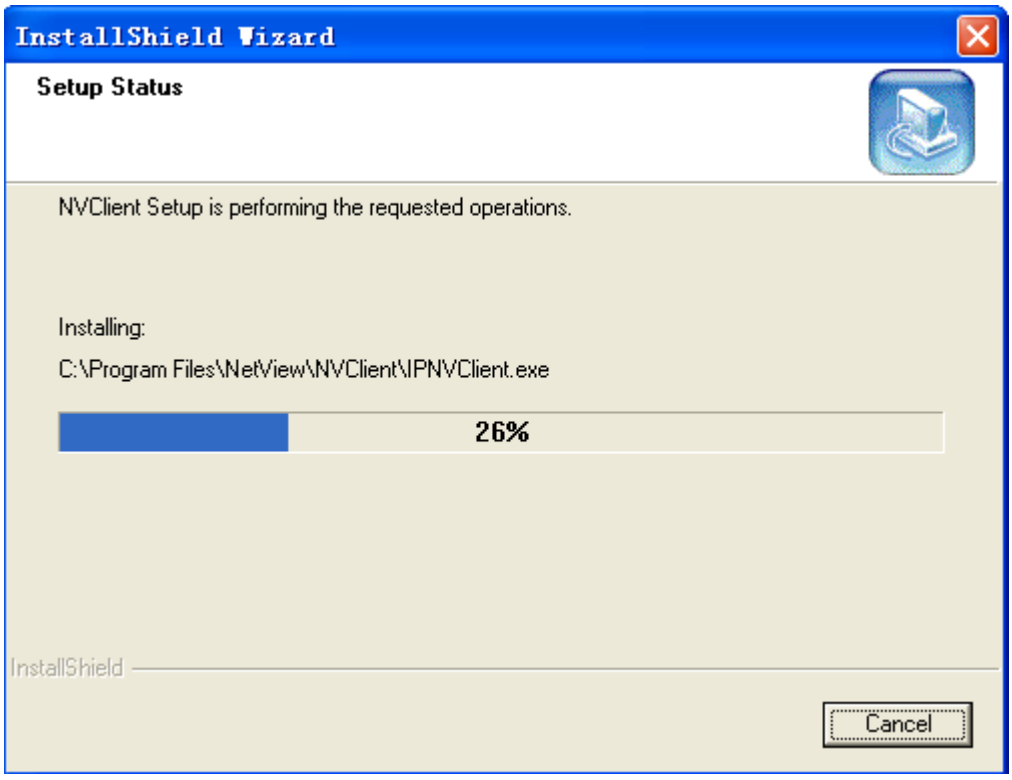
Input user name and company name (optional), click "Next", there will be a dialogue box:


InstallShield Wizard
Choose Destination Location
Select folder where Setup will install files.
Setup will install DVSImageCenter in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\DVSImageCenter
Browse...
< Back
Next >
Cancel

Choose installation folder, click "next", there will be a dialogue box:


InstallShield Wizard
Start Copying Files
Review settings before copying files.
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.
Current Settings:
InstallShield
< Back
Next >
Cancel

Click "Next", move to the installation process



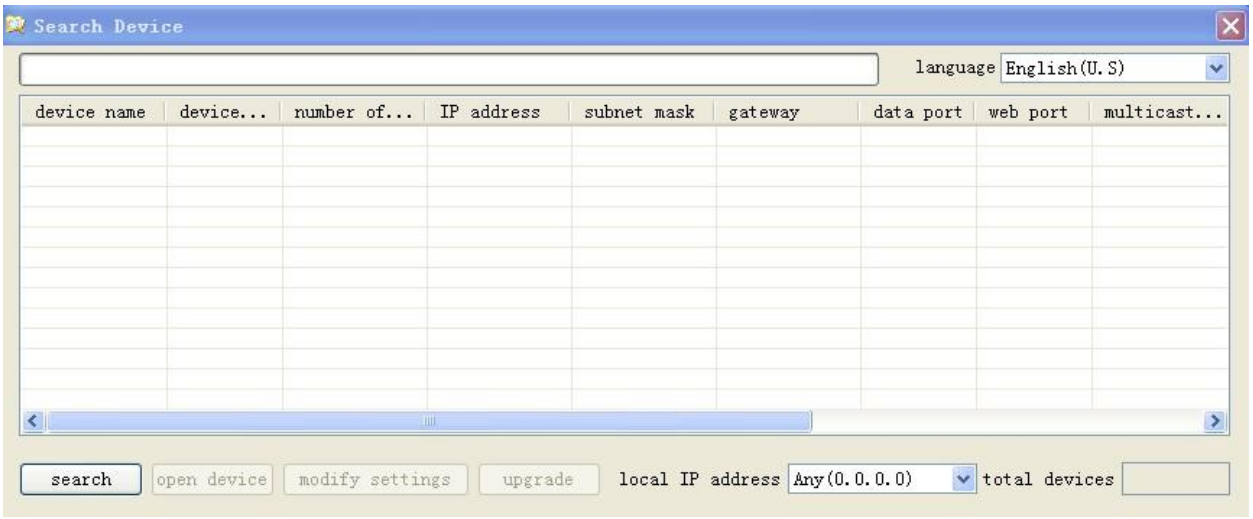
When the installation is finished, there will be a dialogue box

Click "continue" and finish the installation

CMS is installed into the system default directory and there will be a "CMS" program group on the "Start"→"Program" of the windows system

4.2.3 How to obtain IP address?

After install the CMS, click 『Start』『Program』『Search』
Pops up the following figure



Click "search", you can know the IP address of all IP cameras which connected in the network. Make sure each IP camera has one individual IP address.

4.3 IP Surveillance System Connection

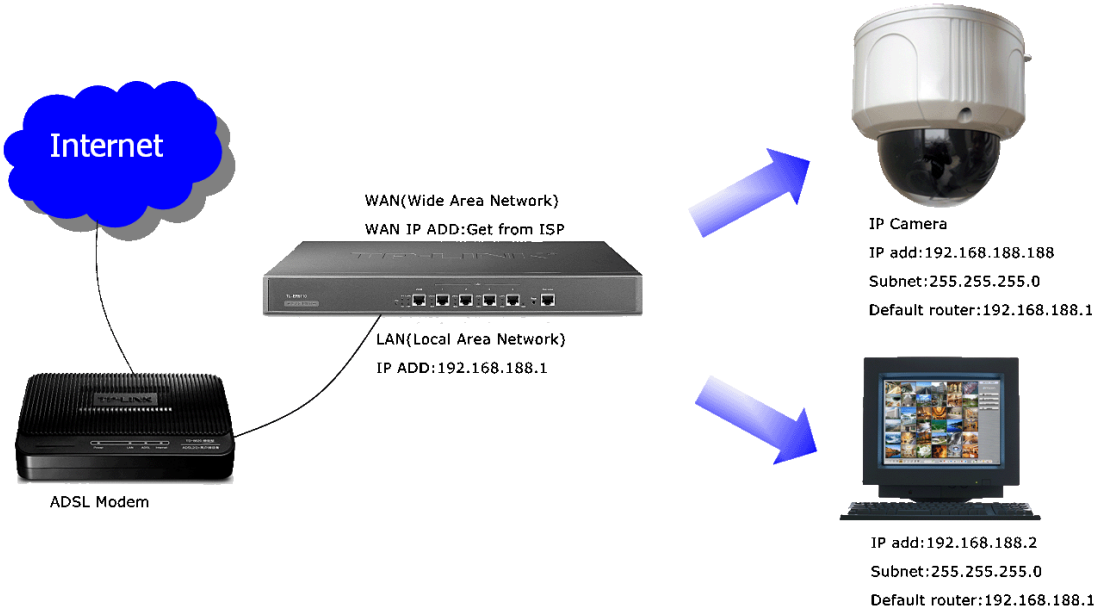
Setting up the IP camera over the Internet

This section explains how to setup the IP camera to an Internet connection.
1 If you have external devices such as sensors, sound pick-up, speaker, Pan tilt unit, make the connection.
2 Connect the IP camera to a switch by Ethernet cable
3 Connect the power cable from IP camera to a power outlet.

There are several ways to set up the IP camera over the Internet. The first way is to set up the IP camera behind a router. The second way is to use PPPoE.

Internet connection by a router

Before setting up the IP camera over the internet, make sure you have a router and follow the steps below.
1 Connect your IP Camera behind a router, the internet environment is illustrated below. Regarding how to obtain your IP address, please refer 4.2.3



2 If LAN IP address of your IP camera is 192.168.188.188, please forward the following ports for the IP camera on the router
WEB Port and Data Port
If you have changed the port numbers on the Network page, please open the ports accordingly on your router. For information on how to forward ports on the router, please refer to your router's user's manual.

3 Find out the public IP address of your router provided by your ISP (Internet Service Provider). Use the public IP and the secondary HTTP port to access the IP camera from the Internet.

Internet connection by PPPoE (Point-to-Point over Ethernet)
Choose this connection type if you are connected to the Internet by a DSL Line. Please refer for 5.3.2 PPPoE details

5 IP camera configuration

There are following types of IPTRAFFIC network camera parameter configuration:
1) Set IP camera parameter via management software
2）Set　IP camera parameter via IE
IPTRAFFIC Network Camera supports remote view, parameter setting and remote control via software and IE

Use configuration tool

When you login the server successfully with IE, you can use the convenient configuration tool provided by us to configure the Network Camera. Click " parameter setting" with left mouse button, configuration tool will pop-up a new page, displayed as following:

5.1 video and audio settings (General, OSD display, Audio Setting)

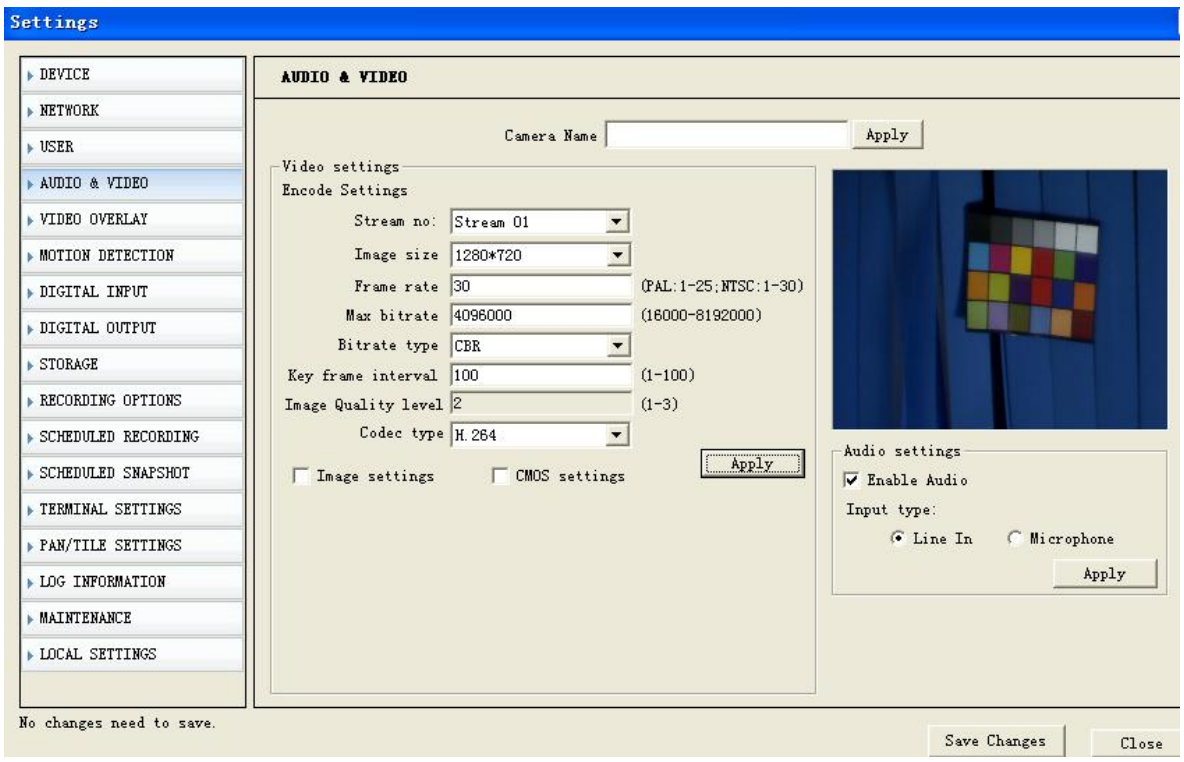
5.1.1 Video setting

Video setting includes the image size(resolution),Frame Rate, key Frame interval, compression format, dual streaming and bit rate settings. (Details are described in the next part "advanced image setting skills")

『Video Format』Image setting. It is adjusting the resolution, please refer to the table:

Resolution	Image size	Frame rate (Max)
2Megapixel	1600*1200	15FPS
1.3Megapixel	1280*720	30FPS
VGA	640*480	30FPS
QVGA	320*176	30FPS

Note: 2Megapixel and 1.3Megapixel are available for IPTRAFFIC Series Megapixel IP camera.



『Stream no』You can define dual streaming for local storage and network transmission. Stream 01 is for local storage . Stream 02 is for network transmission.

If you don't set stream 02, stream 01 can work both local storage and network transmission.

『Image size』If stream 01 mode, the resolution can set to 1600*1200 (2megapixel); 1280*720(1.3Megapixel)

If stream 02 mode, the resolution can set to 640*352 (VGA); 320*176 (QVGA)

『Frame Rate』It means how many frames the encoder is encoding per second. For details please refer to table 1.

『Key Frame Inv』It means the number of frame P or frame B between key frames (frame I)

『Rate Type』When the VBR(Variable Bit rate) is chose, the Network Camera will automatic choose a proper stream according to the complex and movement condition of images and the image quality set by user, but the "stream rate" will not exceed. When the CBR (Constant Bit rate) is chose, the Network Camera will control the "stream rate" in the setting.

『Image Quality level』It is an important parameter that controls image quality, it can be set in 3 levels. For setting please refer to "advanced image setting skill"

『Bit Rate』"Bit Rate" means the amount of stream bit encoding by encoder in a second, the unit of stream rate is bps, namely bits per second. The range of stream rate is from 16k to 8192k, please note that the unit k means 1000, for example 8192k means 8192000bps, the encoder will use 819200bps stream rate to encode video.

For more details of setting of the above part please refer to the following "advanced image setting skill"

『Code type』Support dual compression, H.264 or MJPEG.

Advanced image setting skill

Image setting is an important part in the server setting because it will affect the system ability, it has close relationship with the video quality and network ability. The aim of image setting is to make it conveniently suitable for various networks.

Bit stream and frame rate settings are providing in system, but it is hard to suit various networks with only several default values. Consequently, some advanced settings are providing for user to ensure the video quality while utilizing network effectively.

The image settings including 『Bit Rate』,『Frame Rate』,『Key Frame Inv』,『Rate type』and『Image Quality level』are what we concern about.

Now we will introduce meaning, effect to other settings and network ability of each setting respectively.

Bit Rate

It means the size of stream bit encoding by encoder per second. The unit is bit per second. this setting is the main factor affects the bandwidth of network and other settings. The bandwidth utilizing will increase when the bit rate increase. Thus CBR (Constant Bit rate) setting according to the bandwidth is suitable for the network bandwidth limitation situations. In the same quality situation, bit rate will be affected by

settings frame rate, I frame Inv, rate type, image quality, and definition. Please refer to following introduction for details. This parameter is valid when the "Rate Type" is set as CBR (Constant Bit rate).

Frame Rate

It means the maximum number of frames that encoder encode per second, with unit frame per second. This setting has three functions, firstly the number of frames encoder encoding per second is set by this setting, secondly when the stream rate is CBR (Constant Bit rate), when the frame rate changed, for example decreased, because the encoder need to keep the current code stream setting, thus it will enhance the frame quality according to the current code stream setting. It means, when the code stream is VBR (Variable Bit rate), the decreasing of frame rate will enhance the quality of video and keep the same frame rate value. The video quality will reduce conversely. Thirdly, when the same quality is kept, the increasing frame rate will make the image smoother and stream rate increasing. Conversely, the image will become discontinuous and stream rate decrease.

Key Frame Inv

It means the number of frame P or frame B between key frames (frame I). Generally, the default value of this parameter is 25 and does not need to be changed. When the stream rate is settled, the increasing of this value will make the quality of video better. When the video keeps the same quality, this value increasing will make stream rate increased. Conversely, the stream rate will decrease.

Rate Type

When the VBR (Variable Bit rate) is chose, the front end will automatic choose a proper stream according to the complex and movement condition of images and the image quality set by user, but the "Bit Rate" will not exceed. When the CBR (Constant Bit rate) is chose, the front end will control the "Bit Rate" in the setting.

Image Quality

It is an important parameter that controls image quality, this parameter is valid when the "Rate Type" is set as VBR (Variable Bit rate).

To sum up, please refer to our reference value for various conditions and the information giving above to adjust the image setting. You can make adjusting according to the above description if the quality of video is not satisfied.

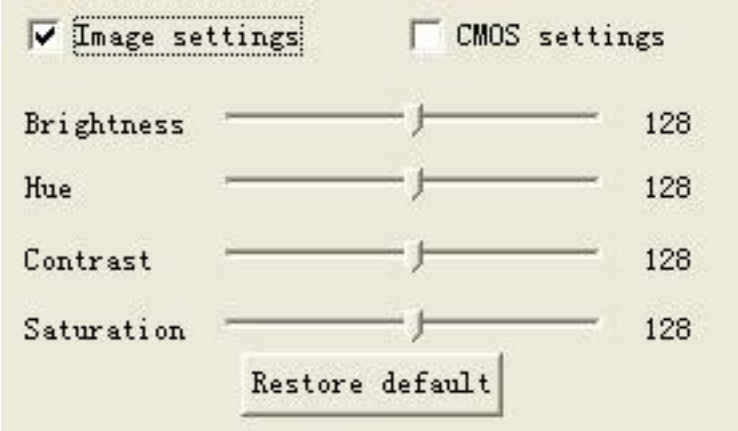
Reference setting	Attribute	Frame rate	Rate type	Bit rate	Stream mode
CBR (Constant Bit rate)	CBR (Constant Bit rate)	25	CBR (Constant Bit rate)	Set according condition	Set according condition
LAN	VBR (Variable Bit rate)	25	VBR (Variable Bit rate)	Unlimited	Stream 01 or stream 02
ADSL- upload 512k	CBR (Constant Bit rate)	12	CBR (Constant Bit rate)	384k	Stream 02
ADSL-upload	CBR	12	CBR	512k	Stream 02

1M	(Constant Bit rate)		(Constant Bit rate)		
ADSL-upload 2M	CBR (Constant Bit rate)	25	CBR (Constant Bit rate)	768k	Stream 02
Best	VBR (Variable Bit rate)	25	VBR (Variable Bit rate)	Unlimited	Set according condition
Good	VBR (Variable Bit rate)	25	VBR (Variable Bit rate)	Unlimited	Set according condition
Normal	VBR (Variable Bit rate)	25	VBR (Variable Bit rate)	Unlimited	Set according condition

Notice: pleas slightly adjust values referring to above reference values according to the system condition. You can make necessary adjusting according to the description of each setting if you have strict requirements for the image quality and bandwidth.

5.1.2 Image setting

『Image setting』Image setting includes the brightness, contrast and Hue. The left of the setting bar is the minimum value, you can easily drag the bar control to change value by mouse. Click 『Restore default』to load the factory settings.



5.1.3 Video Flip and Mirror

『Power line frequency』For different countries, it has different frequency. If image flickers, may the setting of power line frequency is not correct

『Flip』 vertical reversal or click

『Mirror』horizontal reversal or click

After setting, click the 『apply』button.

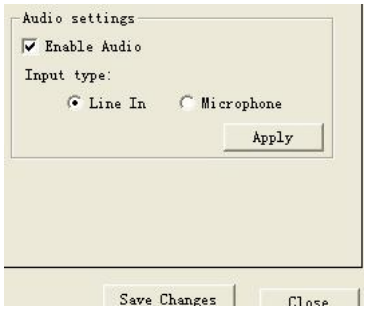
5.1.4 Audio setting

『Enable Audio』Clicking "√" on "□"in the "Enable Audio" means the system will encode audio and send encoded audio stream to the client via network.

If audio input device is microphone, click 『Microphone』.

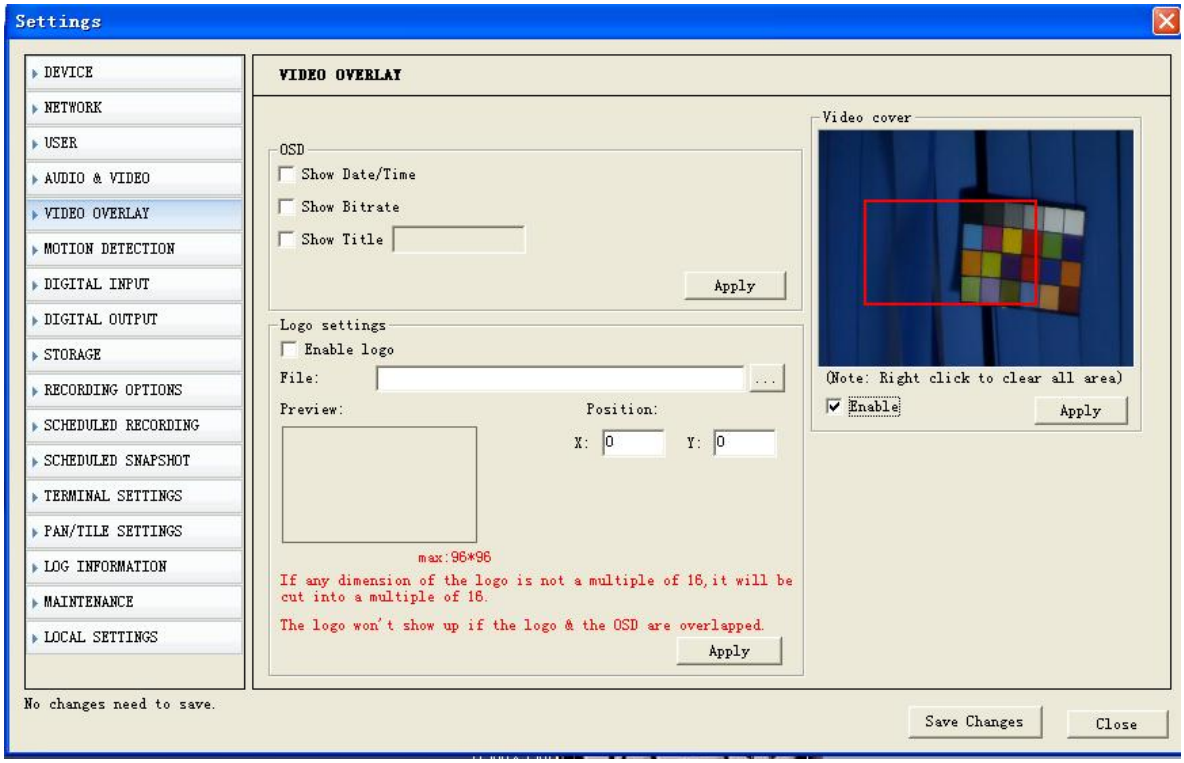
If audio input device is sound amplifier, choose 『line in』.

After setting, click 『Apply』 button.



5.2 OSD/MASK setting

The "OSD setting" shown as following figure includes the OSD/MASK setting. In the setting "√" in "□" means enable the corresponding overlay option function, contrarily disable the corresponding function.



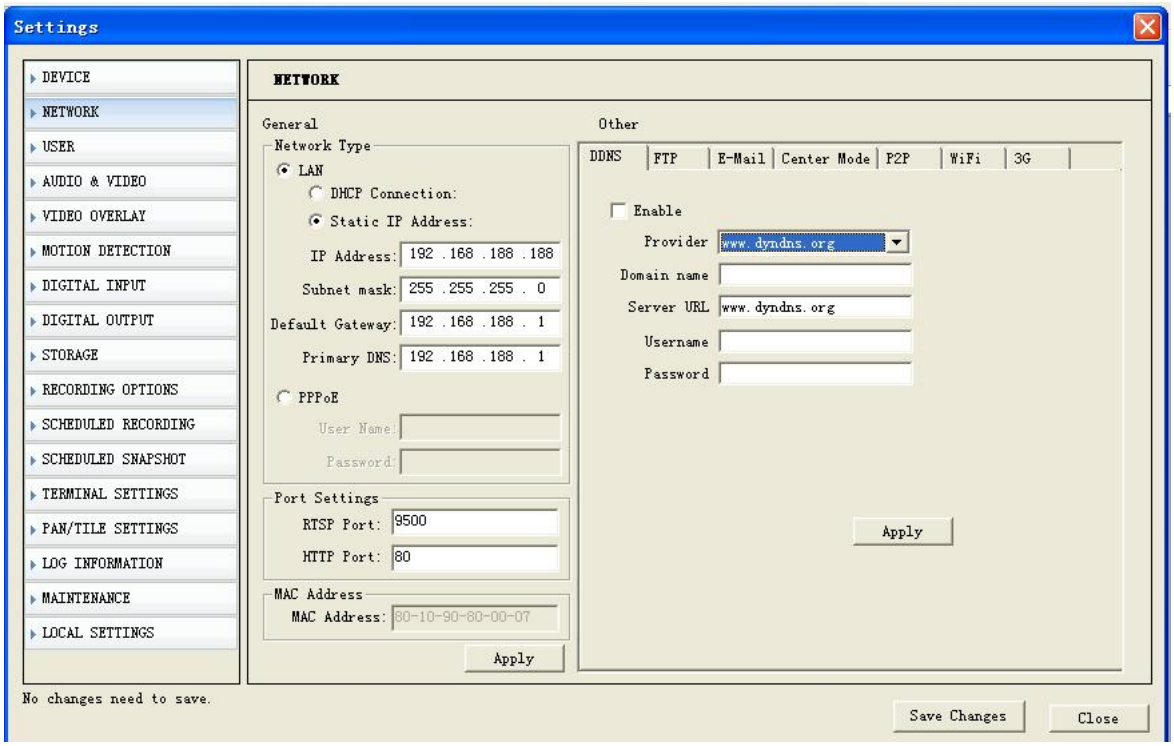
『OSD』This setting achieves the characters overlay function, including date overlay, time overlay, channel description overlay, frame rate and bit rate display. They are displayed on the top left of the live view video.

『Video Cover』: This setting achieves the video mask setting function on specific zone.

『Enable』Drag the left button of mouse to draw a zone where you would like to shelter on the image and click『Apply』. If you would like to cancel the shelter setting, no need click "√" in "□" .

5.3 network settings (General, DHCP,PPPoE,DDNS, FTP, E-mail, Wifi, 3G)

5.3.1 General setting



『DHCP』Click this to enable IP camera's DHCP function. It acquires its WAN port IP address from a DHCP server within the same network. (You must have a DHCP server in order to enable this function.)

『Static IP address』Click this to manually enter the IP camera address.

IP address is the address of Network Camera in network, please enquire this value from your network administrator, invalid or address conflict will cause Network Camera connection failed. Default IP address is 192.168.188.188

『Subnet mask』If IP address is changed, adjust the subnet mask accordingly.

『Gateway』Enter the IP address of the gateway (router). Please enquire your network administrator.

『DNS』Defines the IP address of the primary DNS server. This is used for identifying this computer by name instead of IP address.

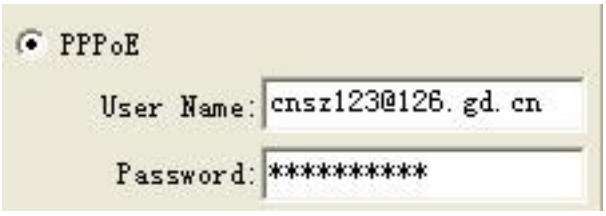
『RTSP Port』it is the listening port providing data servers including video and audio stream service and setting service.

『HTTP port』it is the listening port providing web service. If this setting is changed, please login by accessing http://IP address: web port

『Apply』Click this button when you finished corresponding setting options.

Note: Once you finish all settings, make sure to click the "Save changes" button. Otherwise, some settings may not take effect.

5.3.2 PPPOE

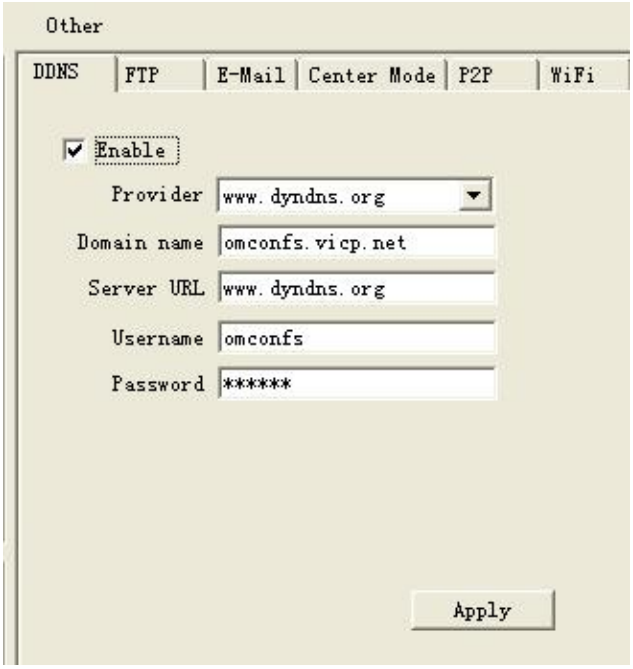


If IP Camera or video server is connected to xDSL modem directly, please set the PPPoE here.

Enable PPPoE, enter user name and password of your xDSL account

5.3.3 DDNS

A dynamic DNS (domain name system) service that allows your IP camera, especially when assigned with a dynamic IP address, to have a fixed host and domain name.



『Enable』:Click this to enable IP Camera's the DDNS function.

DDNS function enables users to connect to this IP camera by domain name even if its IP address is not static.

『Static IP address』Provider: Select one of DDNS service provider from the drop-down list. You can visit their website to get a DDNS service account for this Ip camera.

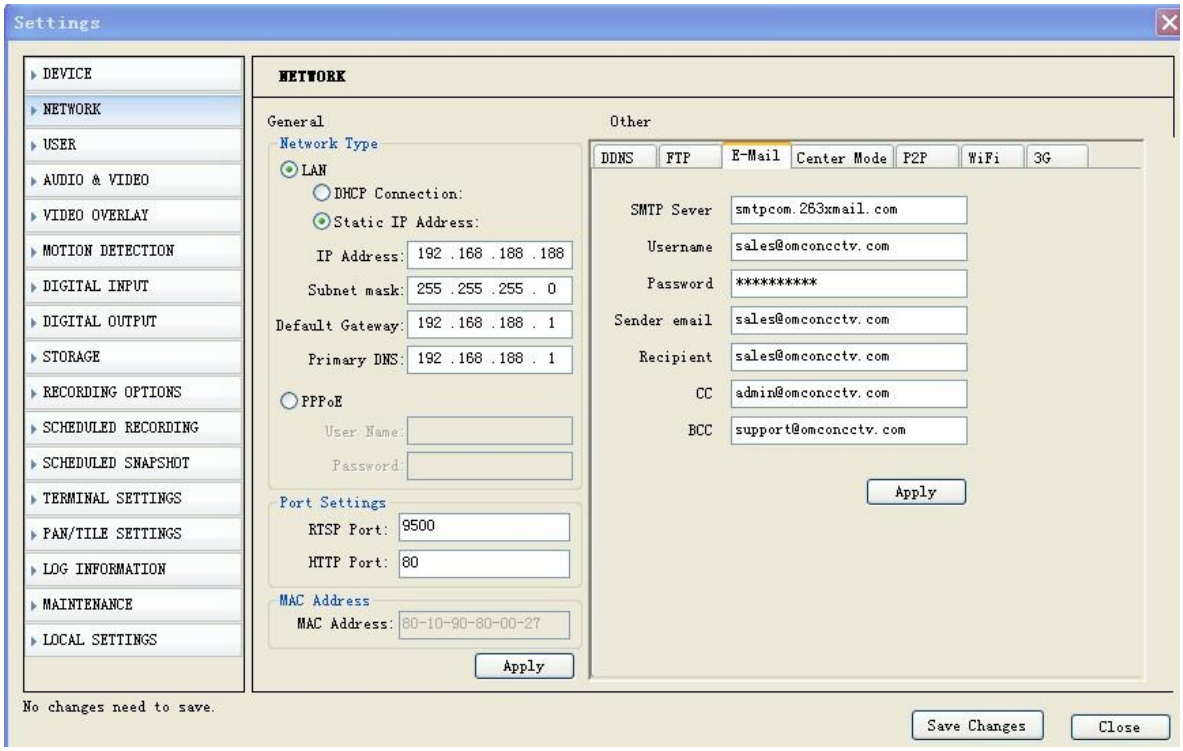
『Domain Name』Enter the host name of your DDNS service account.

(ex.:usaipcamera.dyndns.org)

『User Name』Enter the login user name for your DDNS service account.

『Password』Enter the login password for your DDNS service account.

5.3.4 E-Mail Setting



(1) 『SMTP Server』 Input the SMTP Server, e.g. smtp.sohu.com.
(2) 『user name』Input the full name of email address.
(3) 『password』Input password to login email address.
(4) 『Sender email』 Input the sending email address. Sending email address should be same as email address of『user name』
(5) 『Receipt』The email address which receive the alarm notification.
(6) 『C.C』to make a copy to email address which can receive the alarm notification
(7) 『BCC』Blind carbon copy email address which can receive the alarm notification
Click 『Apply』to save the changes, click 『Save changes』to save in Flash.

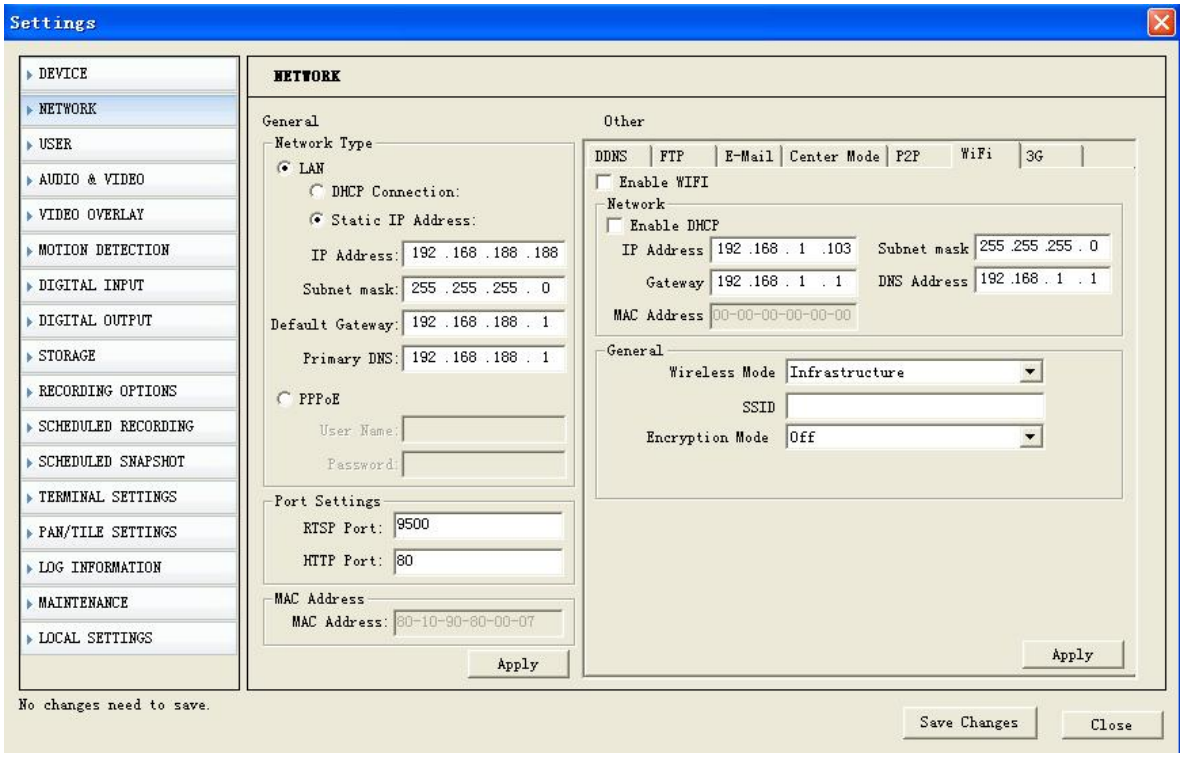
Note: When you want to send snapshot once motion detection, please set motion detection paragements and enable 『Motion Detection』『Enable Snapshot』 by 『Email』.
When you would like to send snapshot once sensor alarm, please connect the alarm sensor and set the parameters in 『Digital input』and enable 『Digital input』『Enable Snapshot』 by 『Email』.

5.3.5 FTP setting

(1) 『Server URL』 Input the FTP Server
(2) 『user name』Input the user name of FTP Server
(3) 『password』Input password to FTP Server
Click 『Apply』to save the changes, click 『Save changes』to save in Flash.

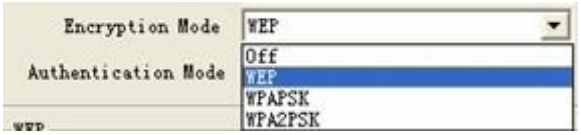
Note: When you want to send snapshot to FTP Server once motion detection , please set motion detection paragements and enable 『Motion Detection』『Enable Snapshot』.
When you would like to send snapshot to FTP Server once sensor alarm, please connect the alarm sensor and set the parameters in 『Digital input』and enable 『Digital input』 『Enable Snapshot』 by 『FTP』.

5.3.5 WIFI setting (Only for WIFI IP Camera models)

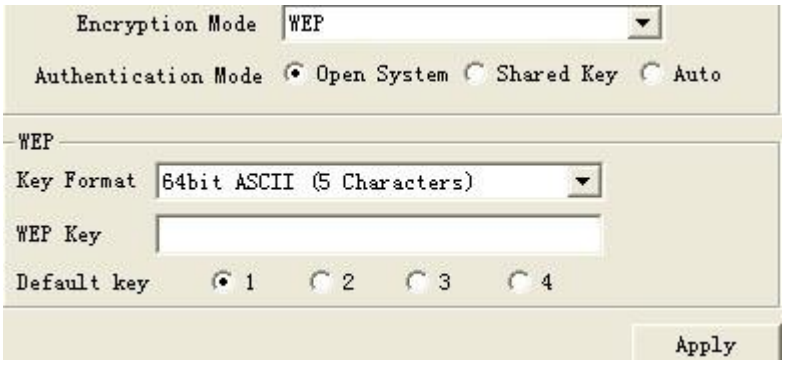


1 Check the SSID for your wireless access point (AP)
2 Enable WIFI.
3 Type in the SSID the same as your AP.
4 Select the wireless mode as “Infrastructure”
5 Clicks Apply.

『Enable WIFI』Enable wireless network connection
『IP Address』IP address of wireless router or AP.
『Gateway』wireless network gateway
『SSID』abbreviated from Service Set Identifier, is the name assigned to the wireless network. Access points and wireless clients attempting to connect to a specific WLAN(Wireless Local Area Network) must use the same SSID. The default setting is null.
『Wireless mode』Click on the pull-down menu to select from the following options:
Infrastructure: Connect the IP camera to the WLAN by an Access Point.
Ad-Hoc: Connect the IP camera directly to a host equipped with a wireless adapter in a peer-to-peer environment.
『Encryption mode』Select the data encrypt method. There are four types: OFF, WEP,WPA-PSK and WPA2-PSK.



1 Off: No data encryption
2 WEP(Wired Equivalent Privacy): This allows communication only with other devices with identical WEP settings.



『Authentication Mode』: Choose one of the following modes. The default setting is "Open"

Open: Communicates the key across the Network.

Shared key: Allows communication only with other devices with identical WEP settings.

『Key Format』:The administrator can set the key length to 64 bits. Set the format to Hexadecimal or ASCII.

HEX: digits consists of numbers 0-9 and the letters A-F

ASCII is the code for representing English letters as numbers from 0-128 except ",<,> and the space character which are reserved.

64 bit key length: 10 Hex digits or 5 characters

Note:

1 The Gateway of wireless network can't be same as the Gateway of wired network.

2 After wireless configurations are completed, click Apply and reboot the IP camera.

3 Some invalid settings may cause the system to fail to respond. Change the configuration settings only if necessary and consult with your network supervisor or experienced users for correct settings. Once the system has lost contact, please refer 5.5.1 to for reset the restore procedures.

5.3.6 3G setting (Only for 3G IP Camera models)

Before set the 3G network parameters, make sure you insert SIM card or USIM card into 3G IP Cameras.

(1)『Enable 3G 』Open this function to make IP camera transmission over 3G network.

(2)『Network type』Select the corresponded 3G network type. Most North Canada support EVDO (CDMA2000). And most European countries and asian countries support WCDMA (UMTS). TD-SCDMA is available in China. Please ask it from your local ISP.

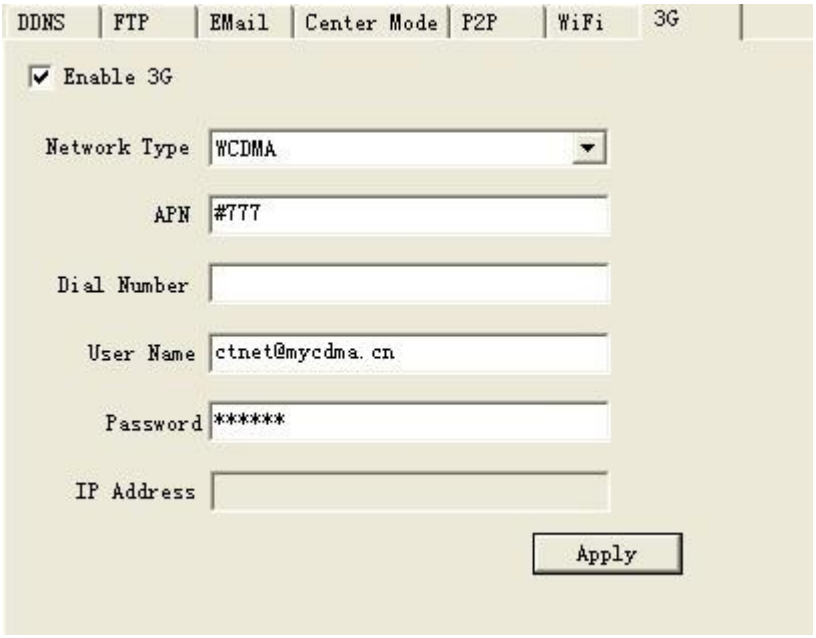
(3)『APN 』Input APN . Please ask it from your local ISP.

(4)『Dial Number』Dial number of 3G network.

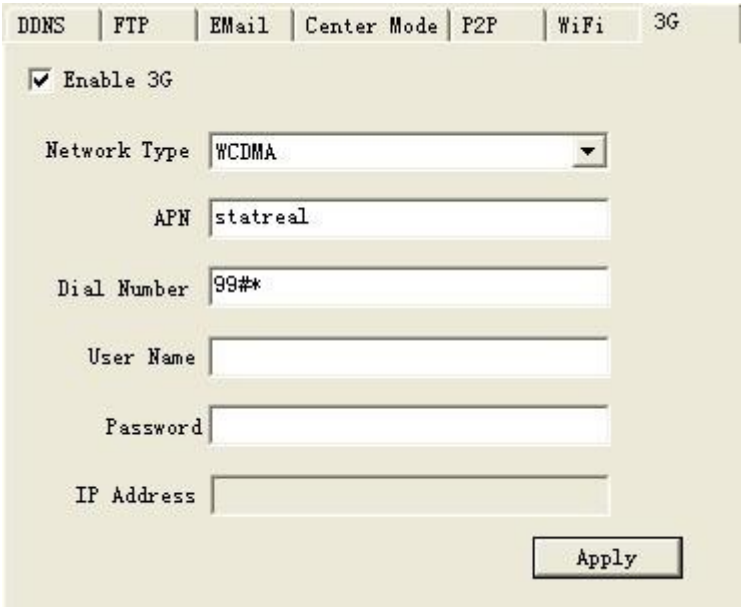
(5)『User name 』user name of 3G network.

(6)『Password 』password of 3G network.

Click『Apply 』to save changes. After successful dial-up 3G network, you can see the IP address.



(WCDMA User in China, dynamic 3G IP address)



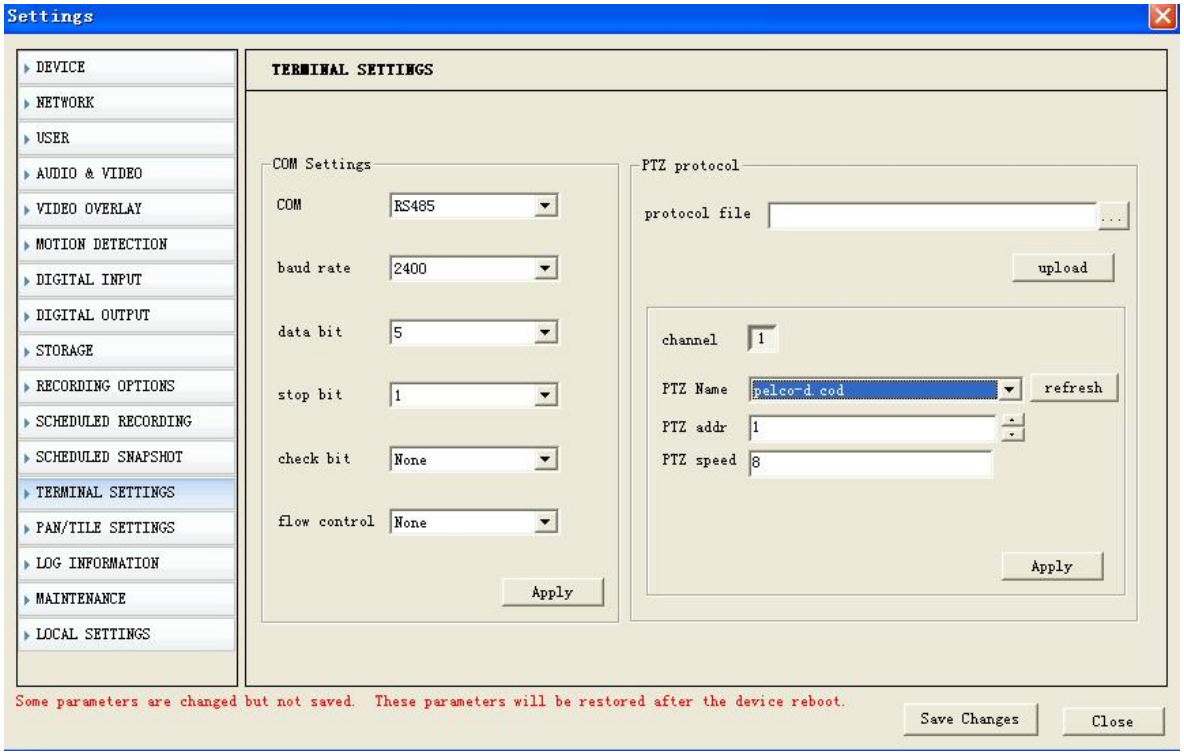
(WCDMA user in Israel, static 3G IP address)

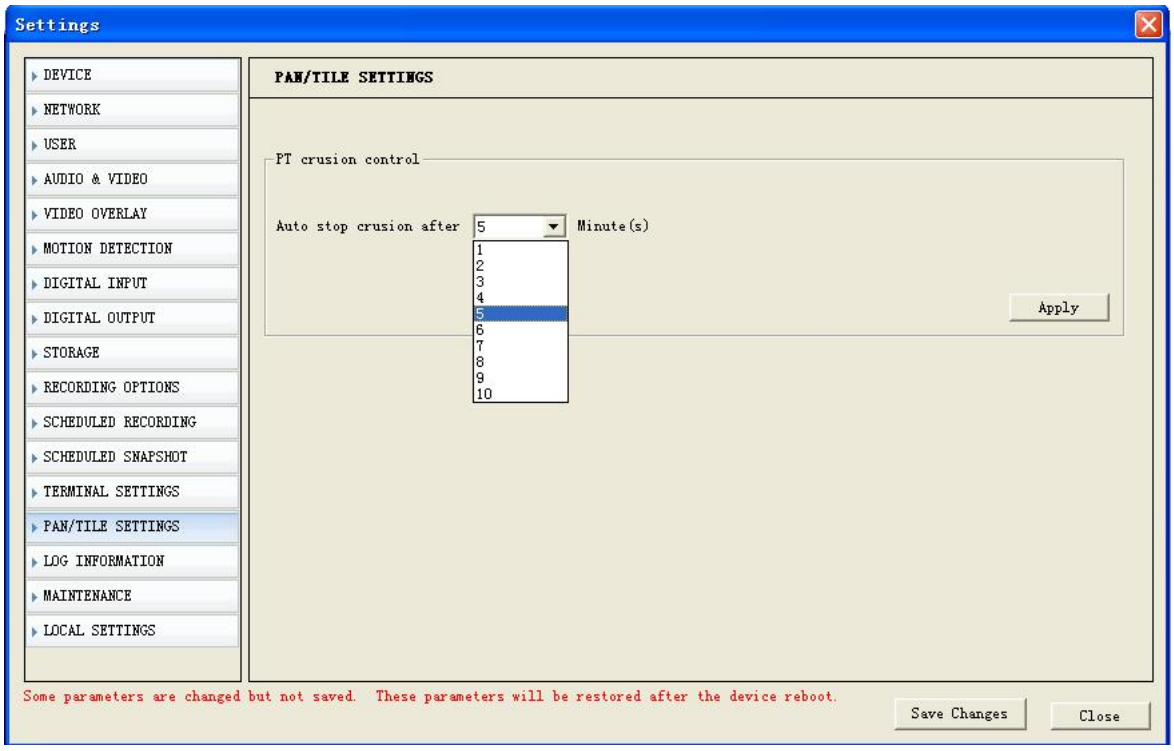
If your get dynamic 3G IP address, please operate it as follows:

(1)『Enable center mode 』Make CMS can initiatively connect IP camera.
(2)『Center IP 』Input WAN IP address of CMS PC.
(3)『Server Port』Suggest to set it over than 1024. Make the server port is not occupied.
(4)『Interval 』If dial-up is failed, it automatically dial-up 3G network per 3 seconds.

Note: If CMS PC connects the internet over Router, please map the『Server Port』in the router setting.

5.4 PTZ setting





『Baud rate』Input the baud rate of speed dome or pan tilt decoder. Make sure the baud rate, address and protocol of speed dome or pan tilt decoder is same as video server.

『PTZ Add』Input the address of the speed dome or pan tilt decoder, generally the

address is configurable.

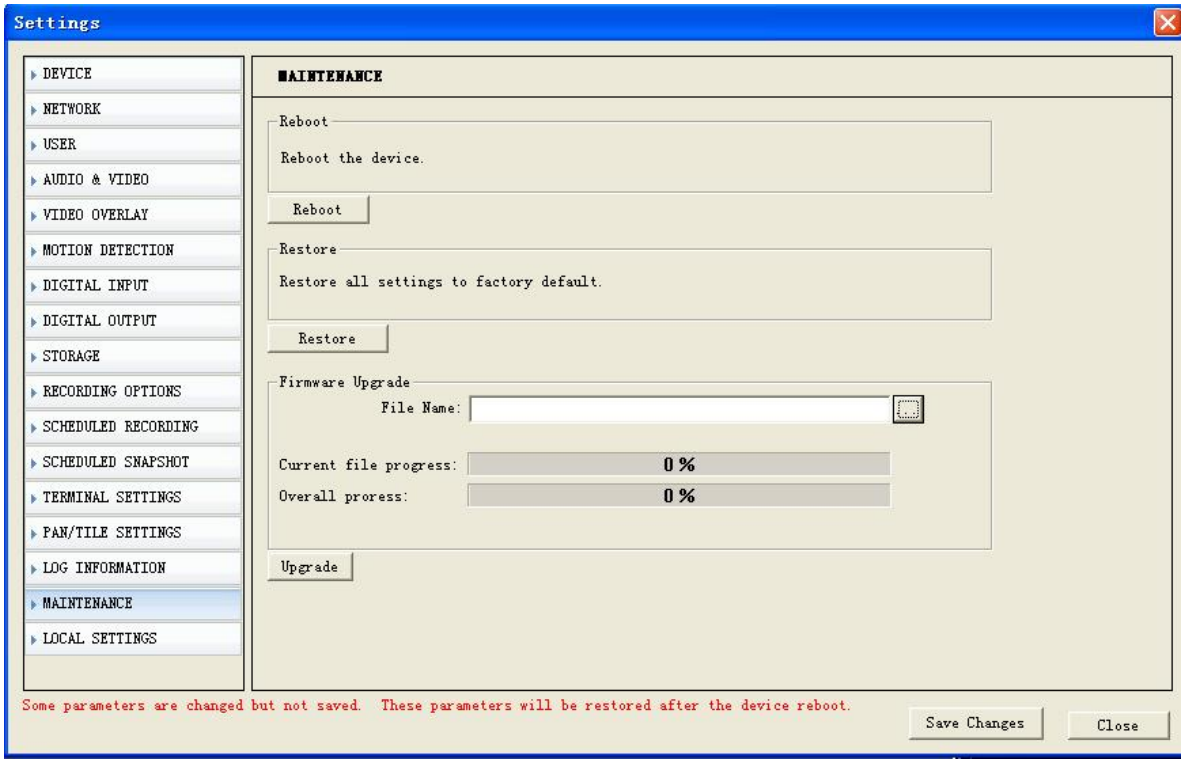
『PTZ Name』Choose the protocol from the pull down menu, server supports 56 types of common protocols.

『Protocol file』You can upload your protocol if the protocol you need is not in the pull down menu. Server supports transparent transmission, please contact us for further information about self-defined PTZ protocol.

『Speed』You can set the running speed of the dome here.

『Apply』Click this button when you finished corresponding setting options. Then you can conveniently control PTZ through our control tool.

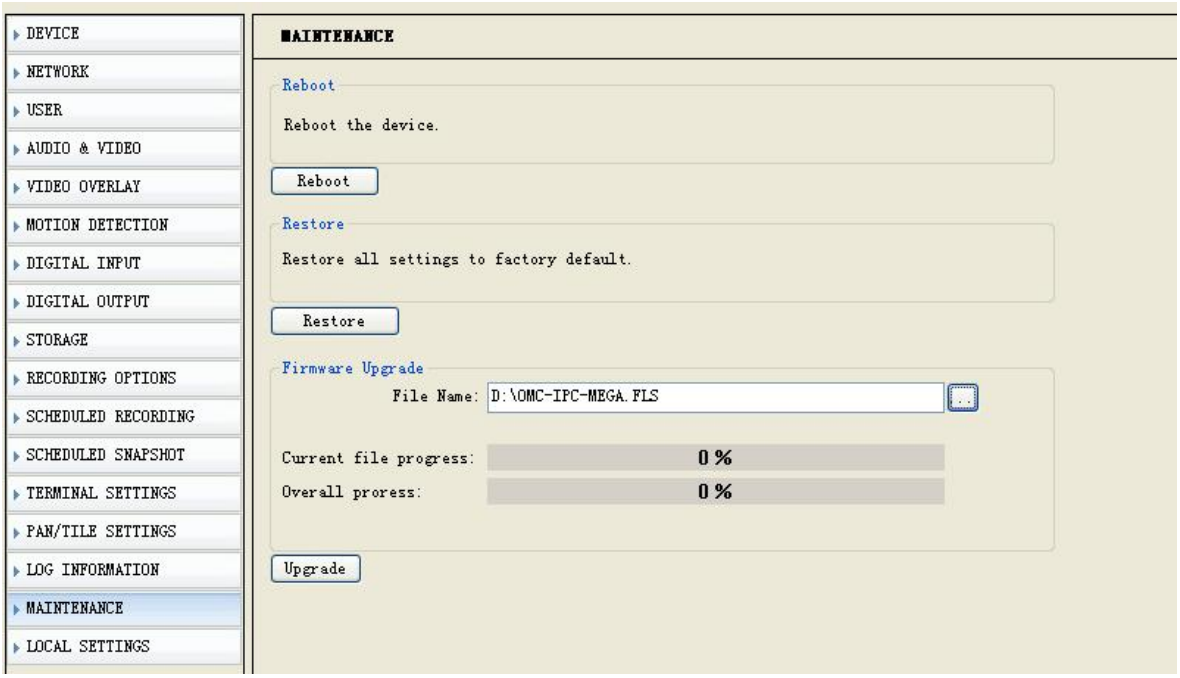
5.5 System (version, time configuration, system update, user)



This section introduced system common settings including system upgrade, system version, system restart, system factory settings restore, shown as following figure:

5.5.1 Firmware upgrade, restore, reboot

『Upgrade』Please do not use this function except professionals. Click "browser" button to select the update file and press enter.



Then click "Upgrade", click "Ok" button in a dialog box.

The system will start the upgrade process, a progress bar will indicate upgrade status.

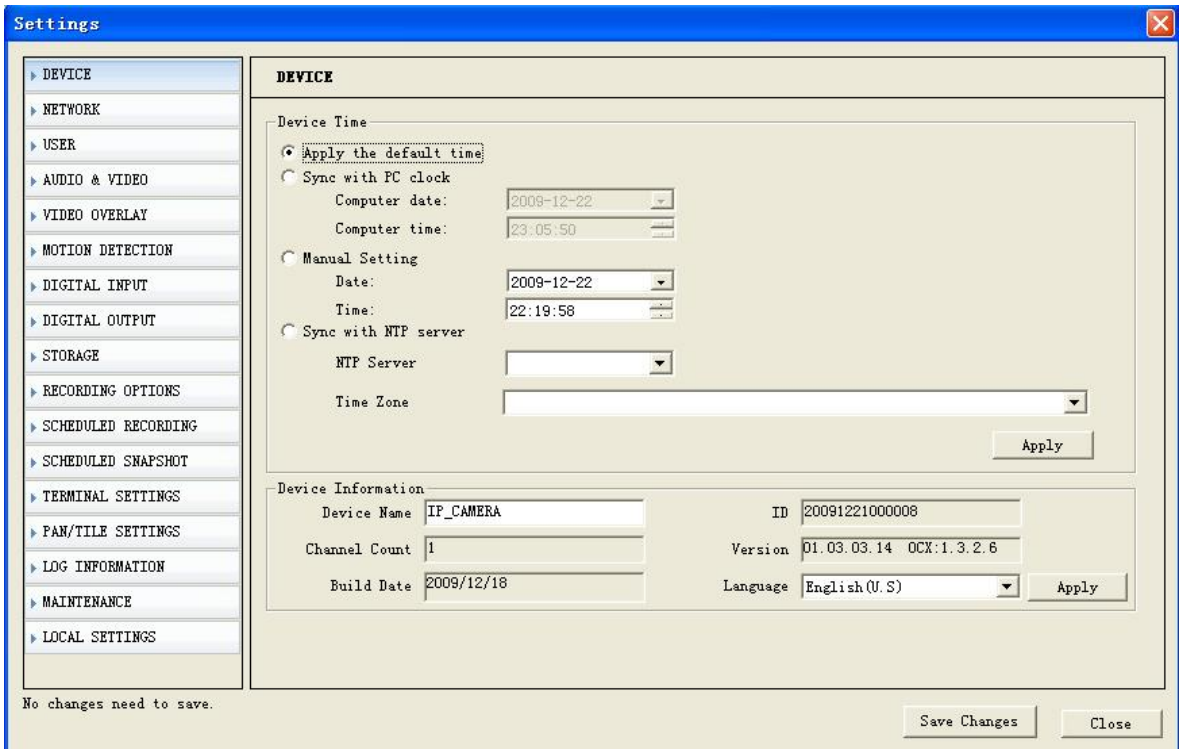
When the upgrade is completed, there will be a status bar showing "Update success. The server will restart".

『Restore』Load IP camera's factory default settings except network settings and password.

『Reboot』 Click "reboot" button, the IP camera will restart. The action LED indicator will go off to indicate that the device is rebooting. After around 20-30 seconds, the action LED will light up again to indicate that the reboot is completed.

5.5.2 Time setting

This section tells you how to setup IP camera's date and time settings.
Click the 『Device』on the『Setup』page. The time setting page is displayed as below



『Sync with PC Clock』Select this option to synchronize the date and time of the IP camera with the local computer.

『Manual setting』The administrator can enter the date and time manually. Note that the date and time format are YYYY/MM/DD and HH:MM:SS.

『Sync with NTP Server』NTP function enables this video to synchronize its time setting with a NTP Server. You can use this function to make sure all your IP camera's time is the same.

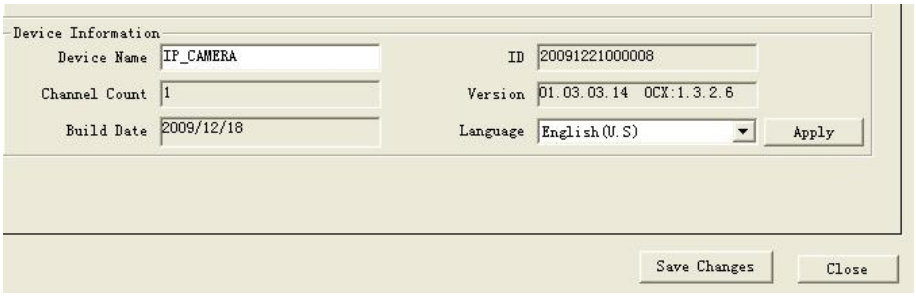
『NTP Server』: Assign the IP address or domain name of the time-server. Leaving the text box blank connects the IP camera to the default time servers.

『Time zone』Select time zone offset for local settings.

『Apply』Click "apply" to save the parameter into the server's flash, unless system will use the former settings after a restart.

5.5.3 Device information

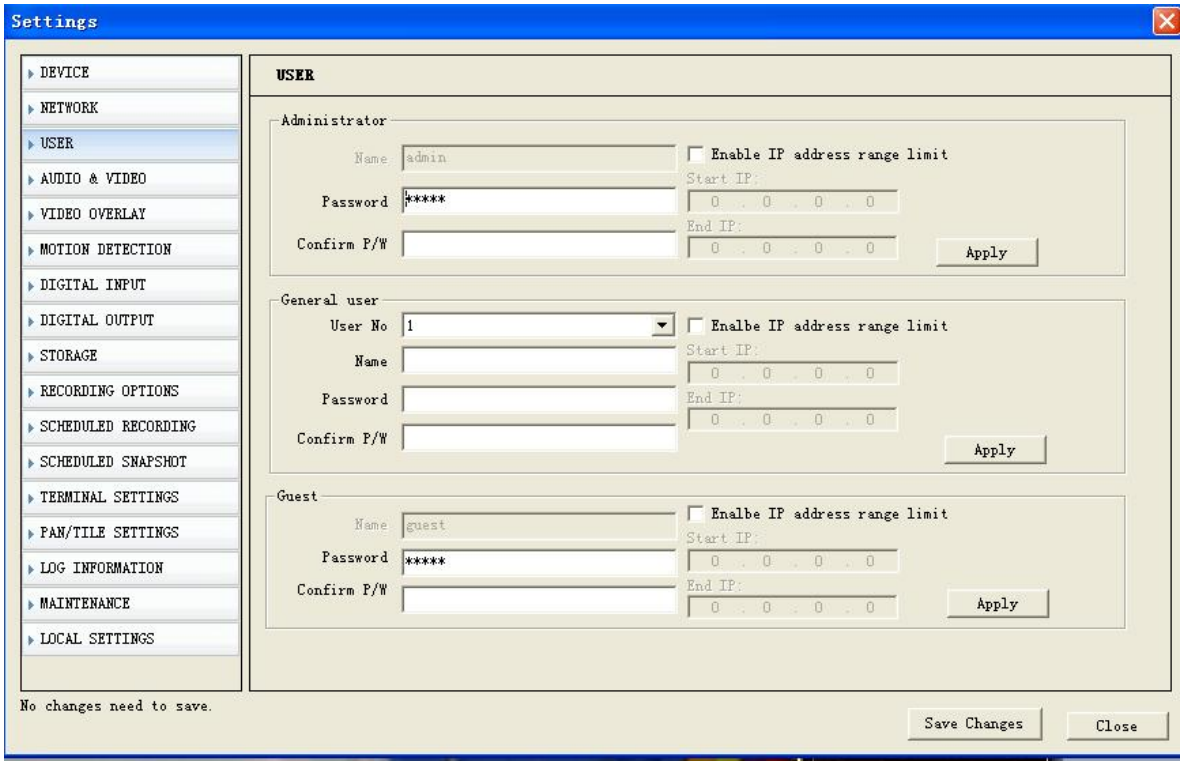
It shows the firmware version.
Support English, Korea, traditional Chinese and simplified Chinese



5.5.4 user management

Setup the account names and their respective passwords. There are 1 administrator account, 10 general user accounts and 1 guest account allowed.

Administrator account allows the users to watch the live view and modify all settings.
General user account allow the users to watch the live view, playback, control the pan tilt zoom, can't change settings.
Guest account only allows watching the live view.



『Enable IP Address range limit』 Clicking "√" on "□" means enable this option. Input the start IP address and end IP address. Only enabled IP address can login the IP camera, otherwise the login will be forbade.

E.g.: If you set Start IP address is 192.168.188.25

End IP address is 192.168.188.29

That means the Remote PC which IP address is 192.168.188.25, 192.168.188.26, 192.168.188.27, 192.168.188.28, 192.168.188.29 can view and control the IP camera.

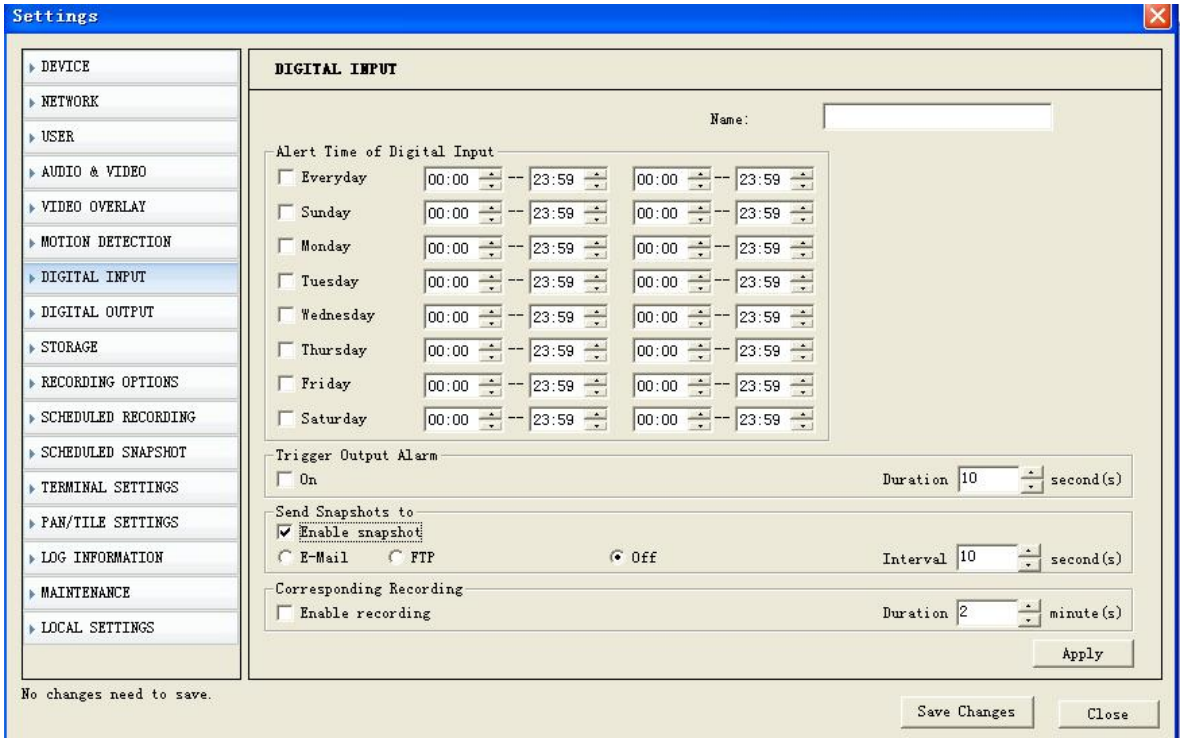
5.6 Alarm (sensor alarm, motion detection)

This section describes the Network Camera alarm parameter setting and the responding when Network Cameras received an alarm

Alarm type	Combined action	Trigger event	Alarm
Video motion alarm	Can combine camera output	1Images capture and upload to client, 2. FTP notification 3 email notification 4 Record 5 trigger output	Client configurable and save in log
Sensor input alarm	Can combine camera output	1Images capture and upload to client, 2. FTP notification 3 email notification 4 Record 5 trigger output	Client configurable and save in log

5.6.1 sensor alarm

After the sensor alarm service is enabled, when the sensor input alarm happened, Network Camera will perform following actions:
Capture JPG image and upload to client
Trigger alarm output
Snapshot email notification
Snapshot FTP notification
Alarm record
Send alarm information to client or trigger the unconnected client connection and video opening



『Name』The description of a sensor for easy remembering, for example "entrance", "switch room"

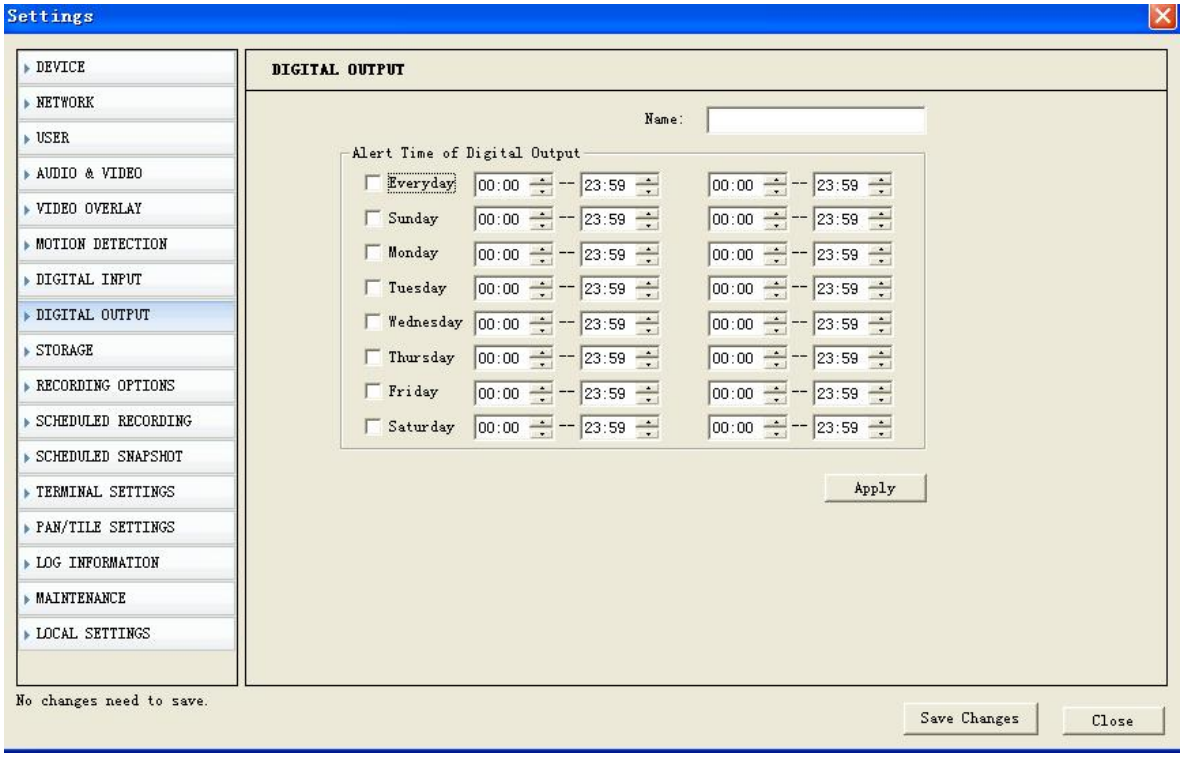
『Alarm Time of digital input』Input value to detect sensor trigger events in specific time according to real conditions.

『Duration』The sensor output will be canceled after this time

『Enable Snapshot』 When the sensor trigger events happened, system will send alarm JPG image by email or FTP automatically. The client must be specified firstly and set 『EMAIL 』and 『FTP』 in 『Setup』--『Network』.

『Trigger Output Alarm』System provide 1 channel on-off value for user to connect with bells, lights, beepers etc. When sensor trigger event happens, system will output on-off value to attached devices.

Alarm Out Setup:

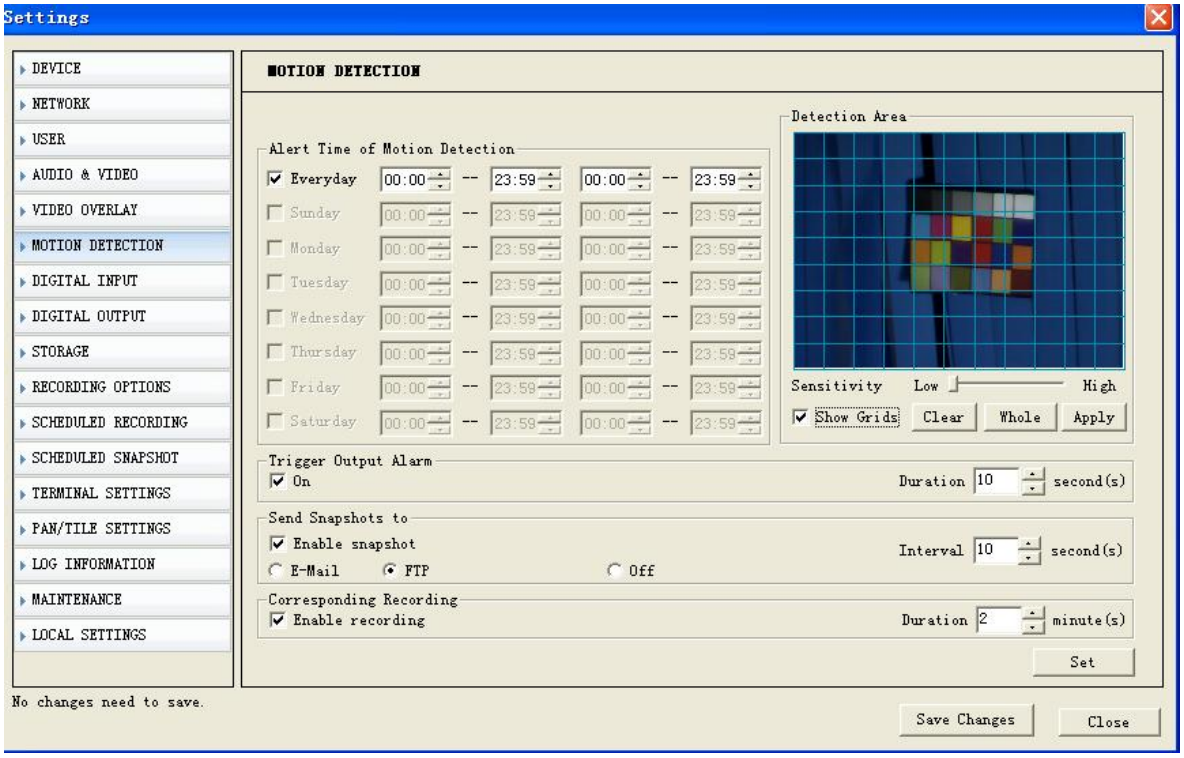


The function of alarm output is to automatically trigger specific sensor output on-off value to trigger alarm devices such as beepers.

5.6.2 motion detection

After the video motion alarm function is enabled, when there are motions in the image at specific time and district, the Network Camera will perform alarm operation such as JPG image capture or sensor output combination and send alarm message to client according to the action setting. Client will deal with the alarm according to the local setting. Video motion alarm information including server name, IP, alarm type, and time will be saved into log for future inquiry.

In the "Motion Detection" setting shown as below figure.



『Duration』The sensor output will be canceled after this time

『Enable Snapshot』 When the sensor trigger events happened, system will send alarm JPG image by email or FTP automatically. The client must be specified firstly and set 『EMAIL 』and 『FTP』 in 『Setup』--『Network』.

『Trigger Output Alarm』System provide 1 channel on-off value for user to connect with bells, lights, beepers etc. When sensor trigger event happens, system will output on-off value to attached devices.

『Detection area』To set the image dynamic detection zone (each channel of image is divided into a matrix with 9 rows and 11 lines. There are 99 zones can be set), zones out of set zones will not perform the dynamic detection task. Red zones mean "they are image dynamic detection zones". You can draw the zones with mouse.

『Sensitive』The sensitivity of motion detection, you can define it according to the real applications..

Setting skill

You can set the detection sensitivity as a higher value to avoid the false alarm causing by small object motions.

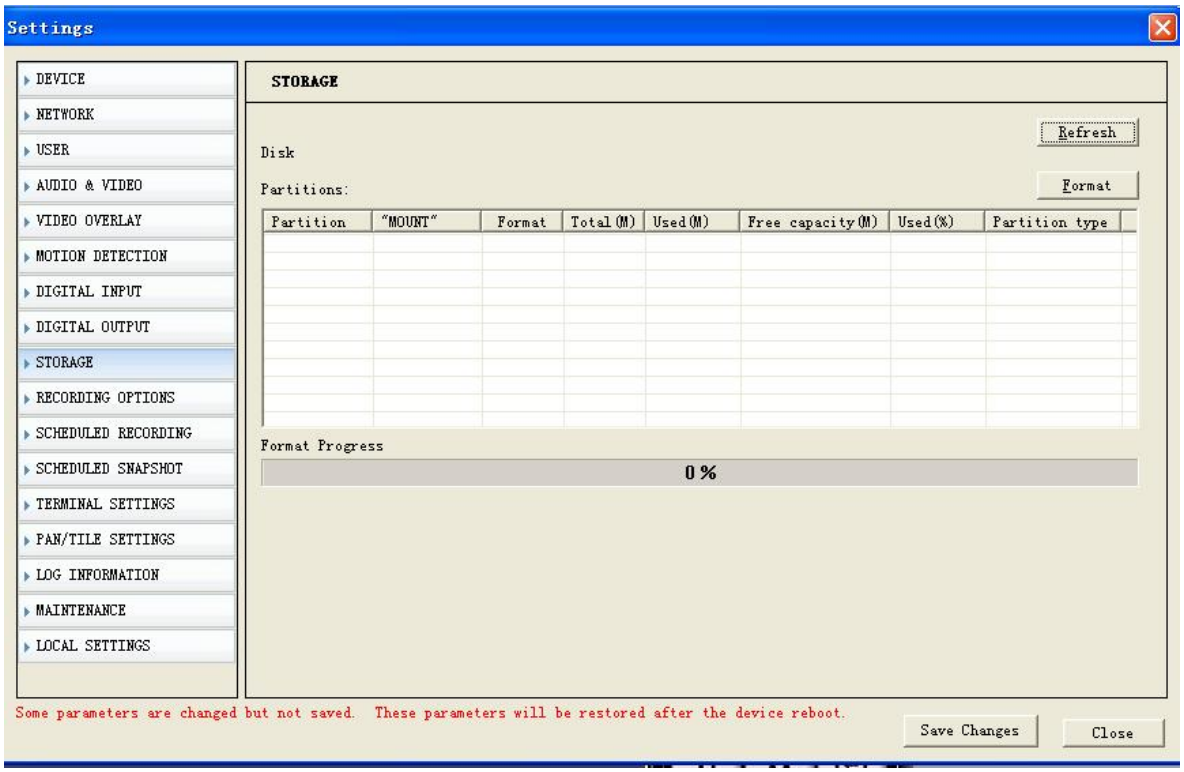
You can set sensitivity as a higher value to avoid the frequent alarm at environment where object motions frequently happen.

Only extreme accurate motion alarm settings need lower sensitivity value. High sensitivity value is recommended for all other situations.

5.7 SD Card Record

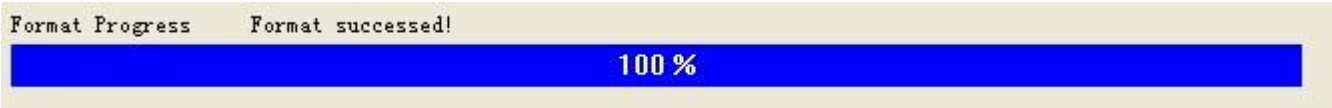
Before you set the SD card record function, make sure you already insert the SD card.

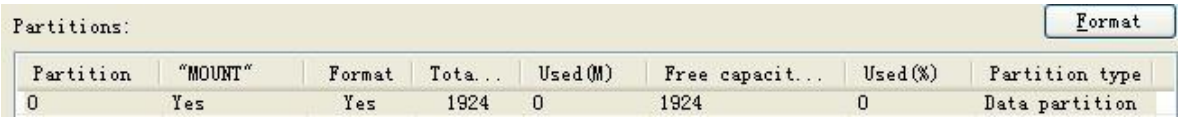
5.7.1 Format SD card



『Format』Format SD card. After you click Format, it pops up a dialogue "Are you sure to format to format the Disk". Click "OK" to format it.

After successes format, it shows information as follows:

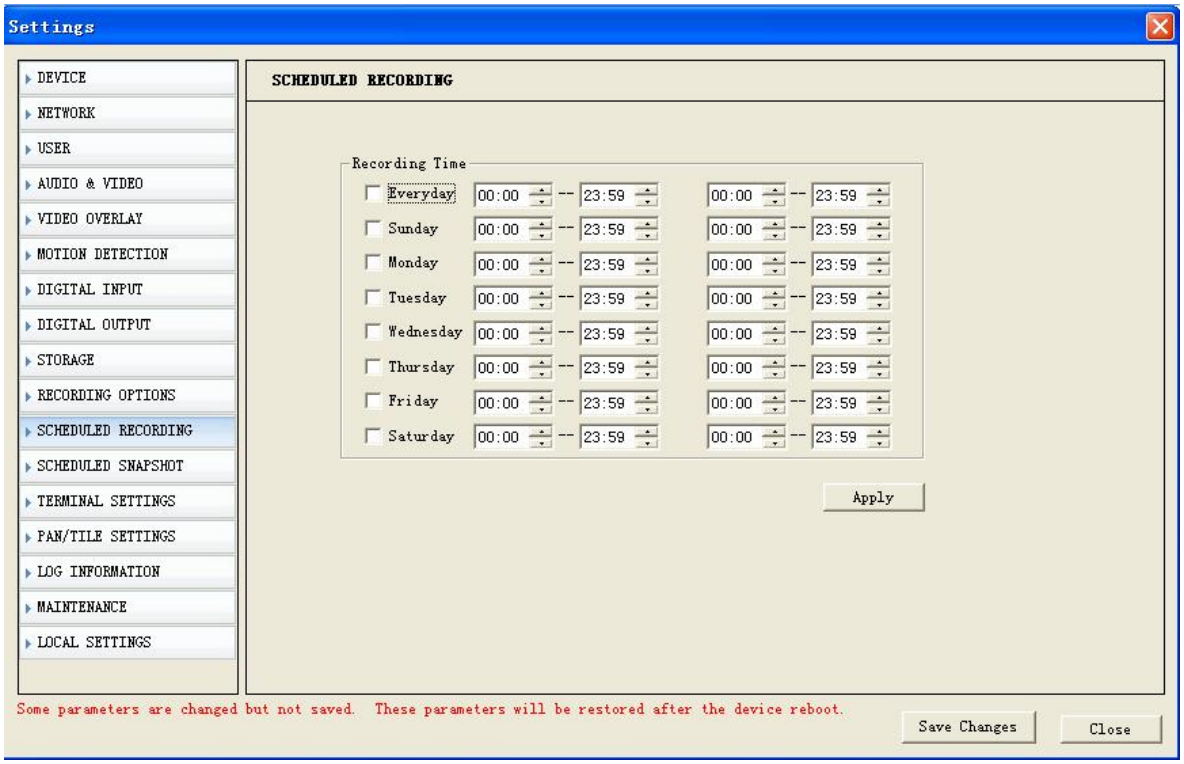




5.7.2 Schedule record on SD card

If 24 hours every day to record, you can click 『Everyday』Start from 00:00 to 23:59.
If snapshot when holidays, you can click 『Saturday』『Sunday』start from 00:00 to 23:59.
If snapshot when work off, you can click 『Monday』 『Tuesday』『Wednesday』『Thursday』『Friday』start from 12:00-14:00 18:00-23:59

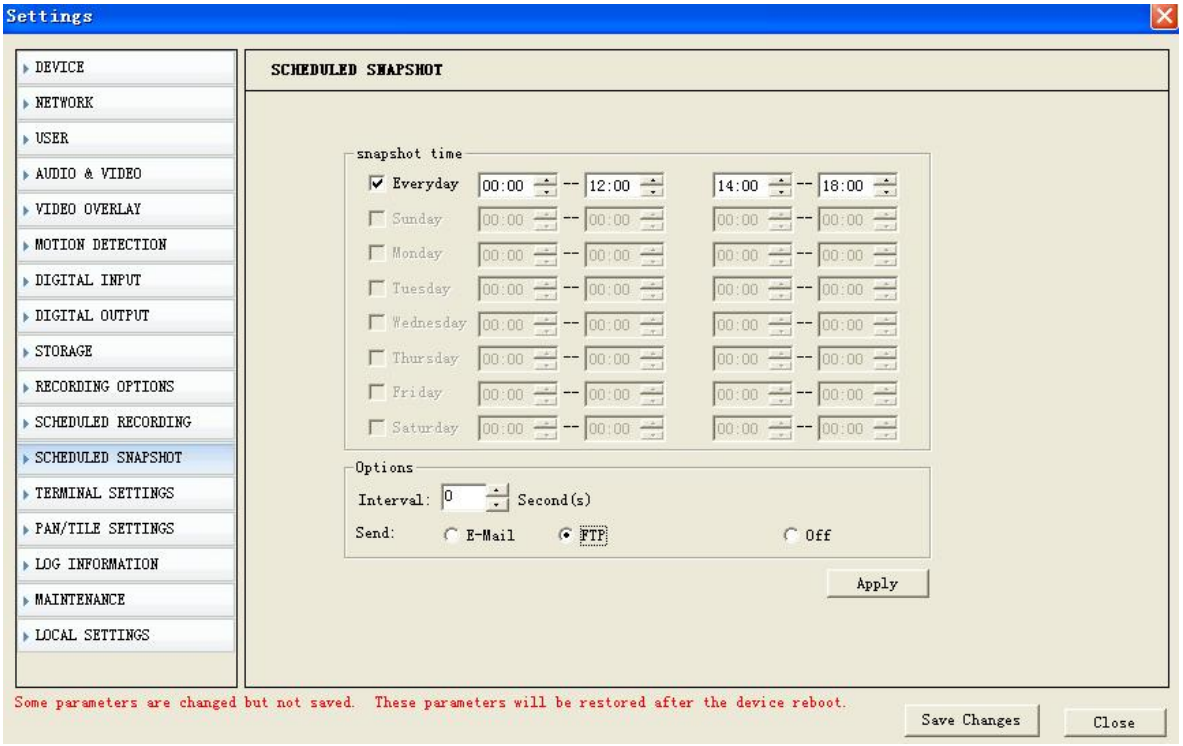
Click 『Apply』to save the changes, click 『Save changes』to save in Flash.



5.7.3 Schedule snapshot on SD card

If you would like to get more video information but limited SD card space. Snapshot can save one photo on SD card per your schedule, per second, per 10 seconds, per minute, per 20 minutes, per hour or per day. Meanwhile, you can define your time schedule.

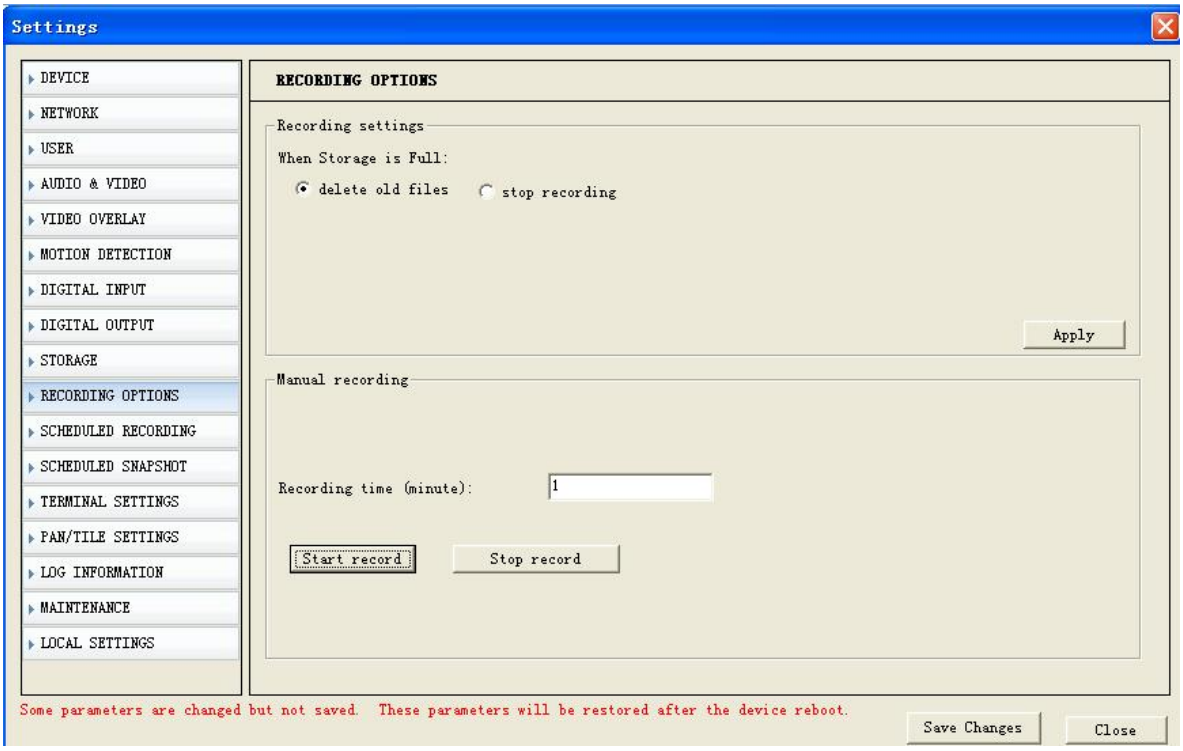
If 24 hours every day to snapshot, you can click 『Everyday』Start from 00:00 to 23:59.
If snapshot when holidays, you can click 『Saturday』『Sunday』start from 00:00 to 23:59.
If snapshot when work off, you can click 『Monday』 『Tuesday』『Wednesday』『Thursday』『Friday』start from 12:00-14:00 18:00-23:59



『Interval』Set interval time to send snapshot. You can set it from 1 second to 99,999 seconds.

Click 『Apply』to save the changes, click 『Save changes』to save in Flash.

5.7.4 Overwrite setting



『Delete old files』When SD card is full, it automatically delete old files

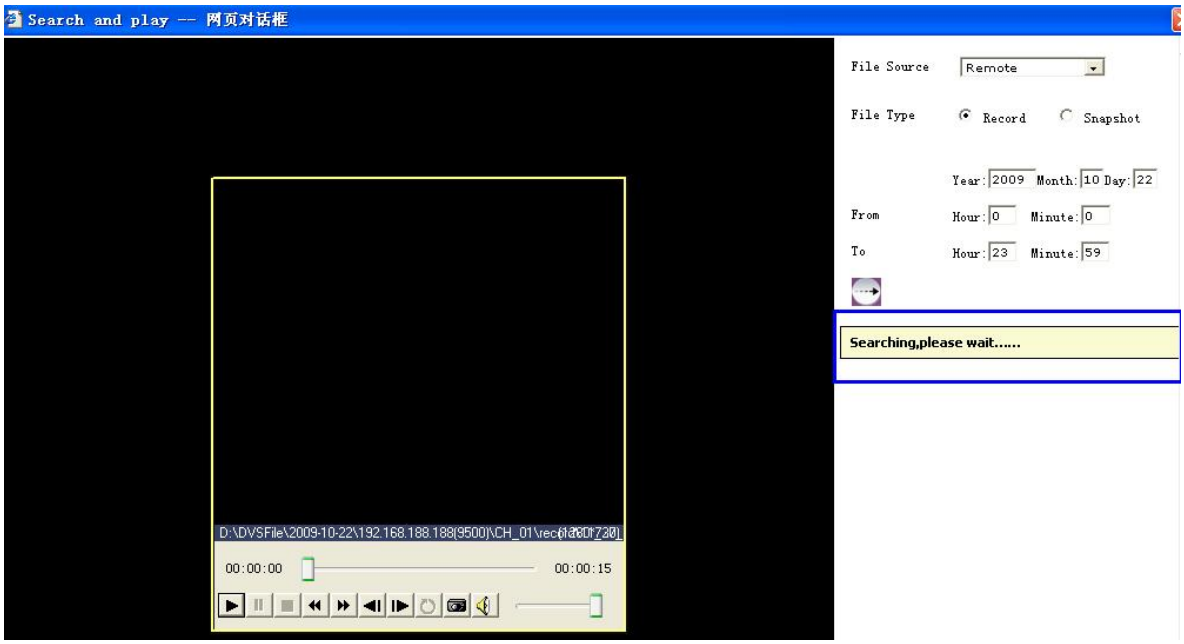
『Stop recording』When SD card is full, stop record.

5.7.4 Play the record file of SD card

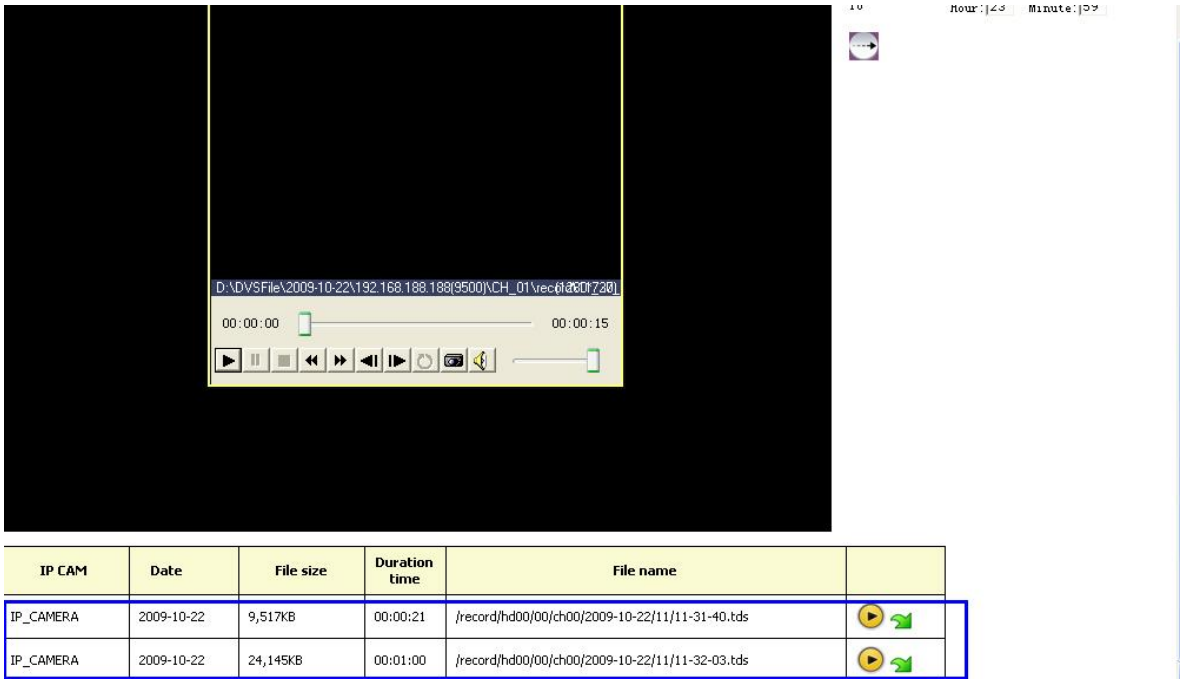
Click

, it pops up the following dialogue

『File Source』Choose Remote from drop-down menu to play the record file or snapshot of SD card.



『File Type』Search files by Record or Snapshot.
Set start time/date and end time/date.
Click Search button.

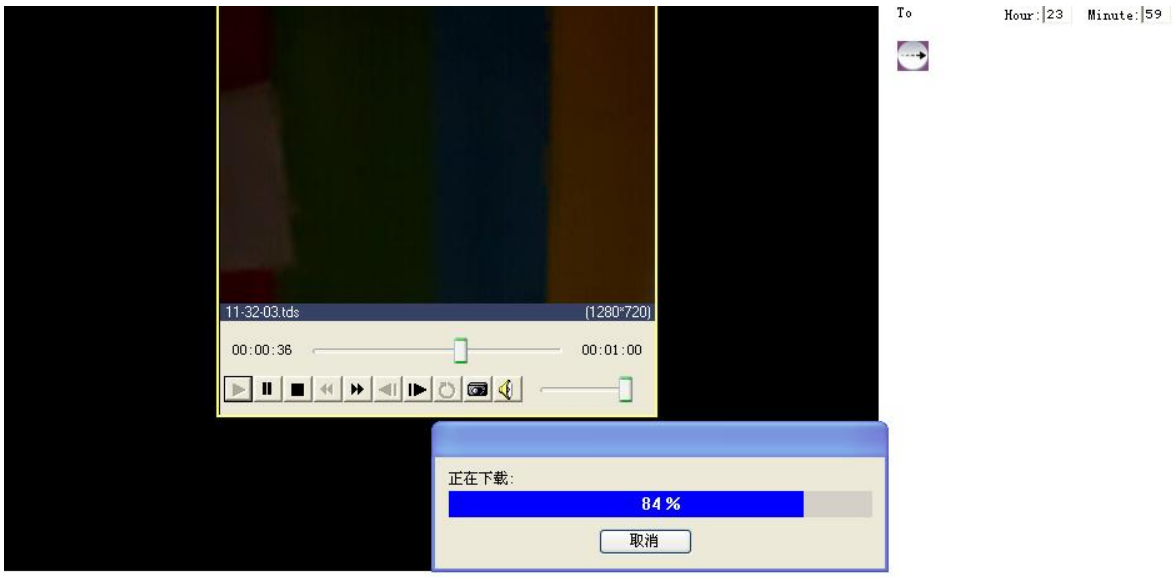


IP CAM	Date	File size	Duration time	File name	
IP_CAMERA	2009-10-22	9,517KB	00:00:21	/record/hd00/00/ch00/2009-10-22/11/11-31-40.tds	
IP_CAMERA	2009-10-22	24,145KB	00:01:00	/record/hd00/00/ch00/2009-10-22/11/11-32-03.tds	

It shows record file list. Click to play it

5.7.5 Download the record files or snapshots of SD card

After you search the files, choose the video files which want to backup, then click to download.

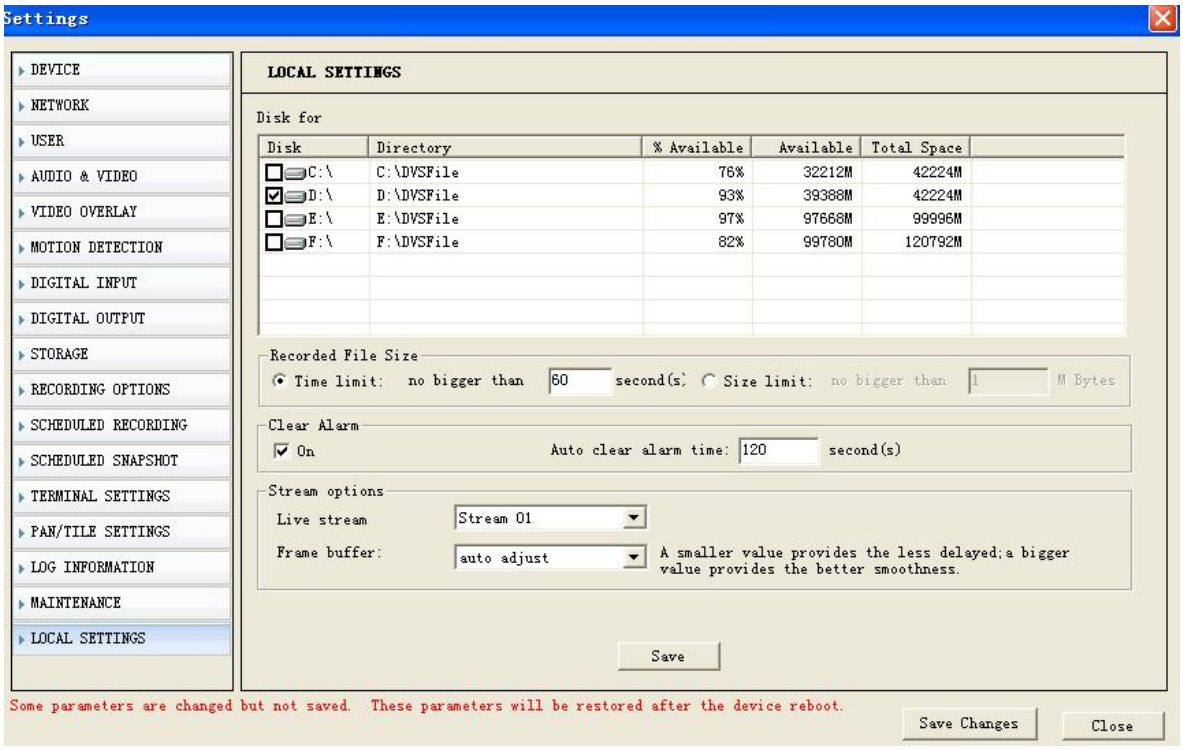


IP CAM	Date	File size	Duration time	File name	
IP_CAMERA	2009-10-22	9,517KB	00:00:21	/record/hd00/00/ch00/2009-10-22/11/11-31-40.tds	
IP_CAMERA	2009-10-22	24,145KB	00:01:00	/record/hd00/00/ch00/2009-10-22/11/11-32-03.tds	

5.8 Manual Record over IE

Click to start manual record, and re-click to stop manual record.

5.8.1 Local record file path



Choose the hard disk drive for local record and snapshot.

The files will be saved under Hard disk drive/DVSFile

『Time limit』Pack record file by time, default is package one record file per one minute. 1-9999999 seconds can set.

『Size limit』Pack record file by file size. 1-999999999 Mega Bytes can be set.

5.8.2 Play Local record file

Click

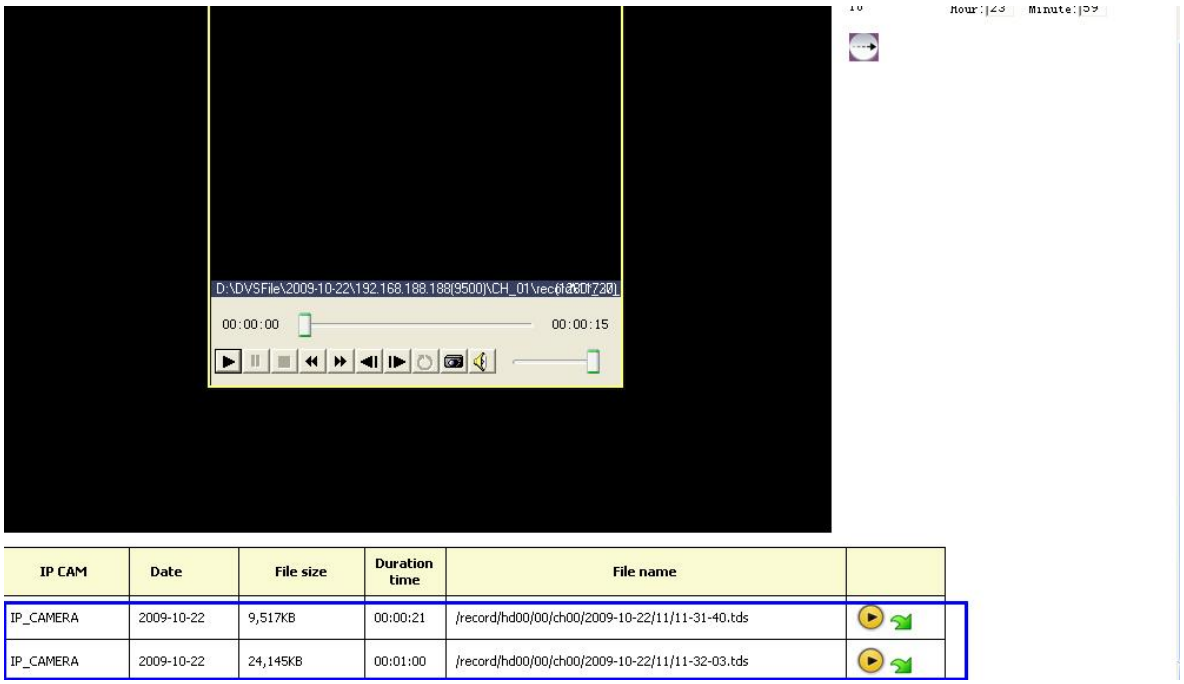
, it pops up the following dialogue

『File Source』Choose **Local** from drop-down menu to play the record file in hard disk of PC.

『File Type』Search files by Record or Snapshot.

Set start time/date and end time/date.

Click Search button.



It shows record file list. Click to play it

6 How to use Management software?

6.1 System login and logout

6.1.1 System Login

In Windows operation system, run "CMS" in "start"→"program"→"CMS" menu, the user login window will pop up

Figure 0-1 Login

Default user name is admin, password is null.
Click "ok" to enter the main menu

Main menu consists of remote view, function button, servers list and status display.

6.1.2 Log out system

Click button in main menu, a dialogue box will pop up:

Figure **Error! Reference source not found.**-2 Logout input dialogue box

Input username and password and click ok to logout system.
Close: Close the CMS
Log off: Exist to use current user and change to another user to login.

6.1.3 Minimize system

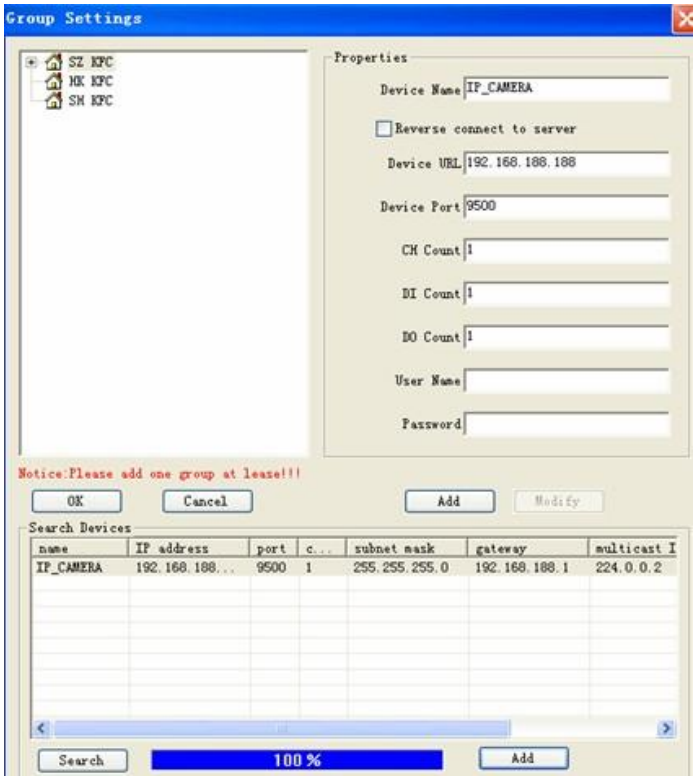
Click to minimize the CMS.

6.2 System setting

6.2.1 Server management (Add IP camera)

Server management will add group and add IP camera in the group settings.

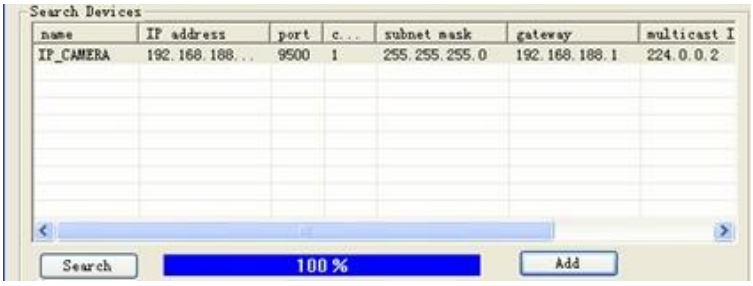
Click on bottom of main menu or Click right mouse button on main menu, choose "Group Settings" and then a window will pop up,



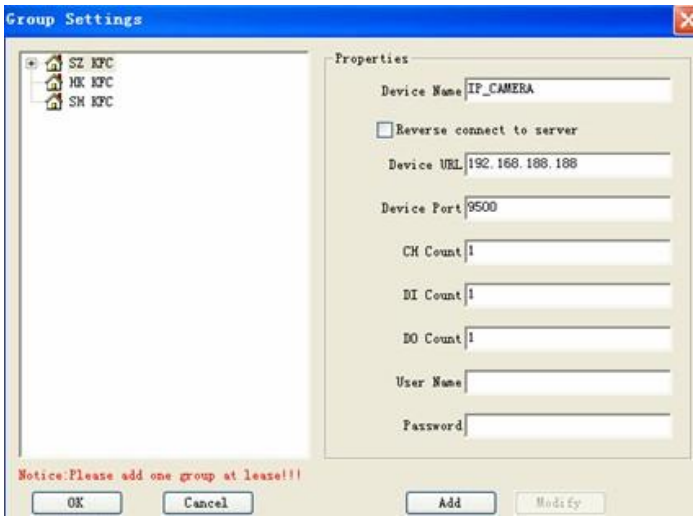
(1) Add groups

Click right mouse to add 'Groups', CMS supports up to 100 Groups.
Define the group name. E.g. Shang Hai Bank of China, Shenzhen Bank of China, New York Bank of China.

(2) Add IP cameras by Search.

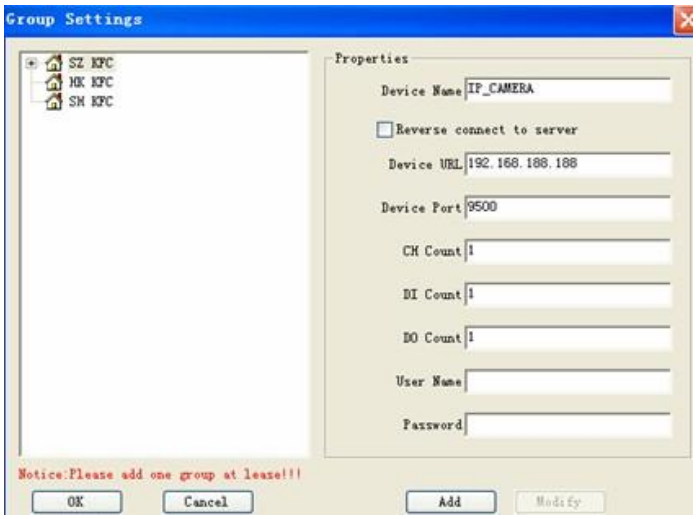


Click 『Search』to find IP cameras.
Click IP addresses which you want to connect.
And click 『Add』to add IP cameras in the groups.
Then in 『Properties』, input the user name and password of IP Camera. (Default setting is admin for user name and password). Click 『Add』to add it in the selected group.



(3) Add IP cameras by manually.

Input the parameter of server which you manage, input IP camera's IP address, local device name, port, additional information. Input user name and password of IP camera. (Default setting is admin for user name and password of IP camera).



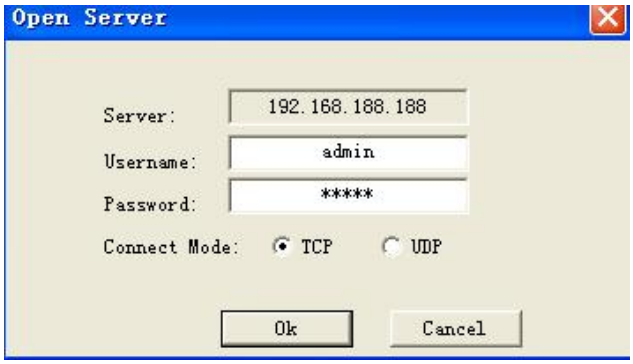
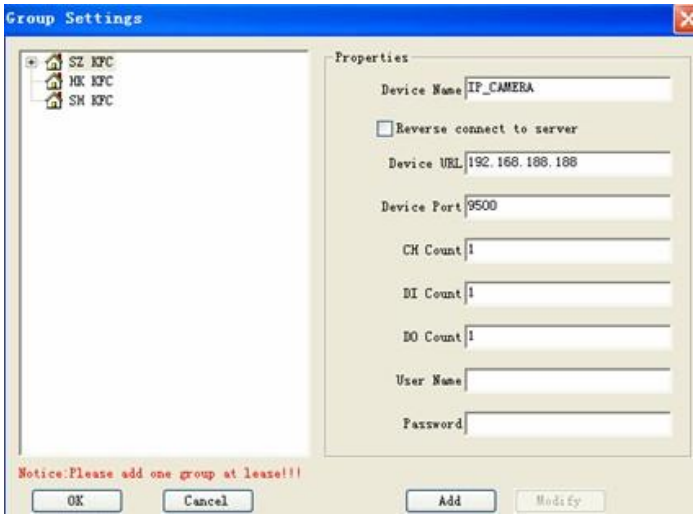


Figure **Error! Reference source not found.**-3 login the server

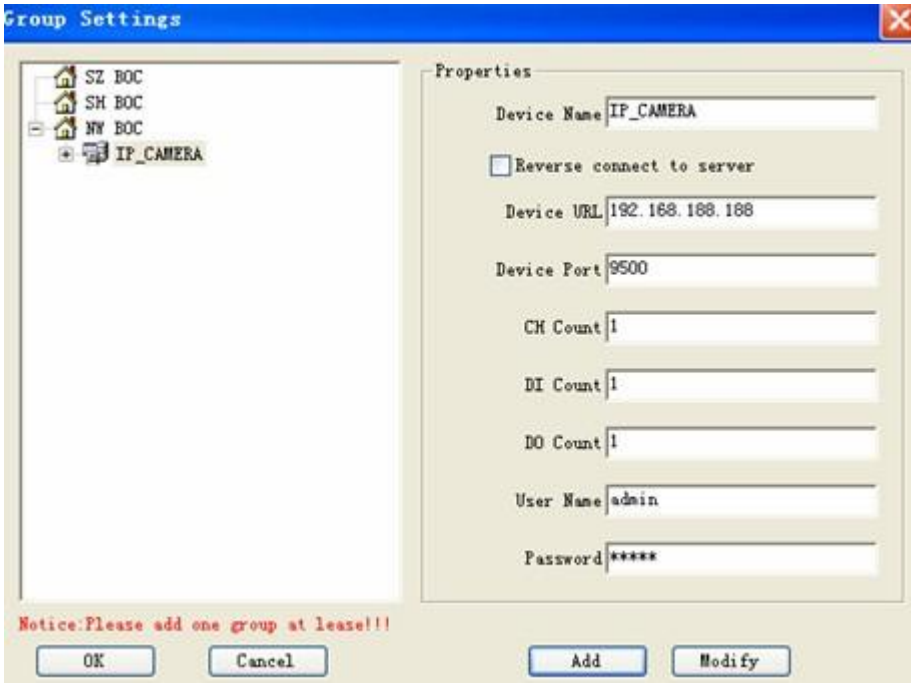
（4）Delete group and change group name

In the 『Group Settings』, right click mouse on selected IP camera which you want to change the name or delete to choose 『Delete group』or 『Change group name』



(5)Modify parameters of IP camera

Server modification: select IP camera and click the 『modify』

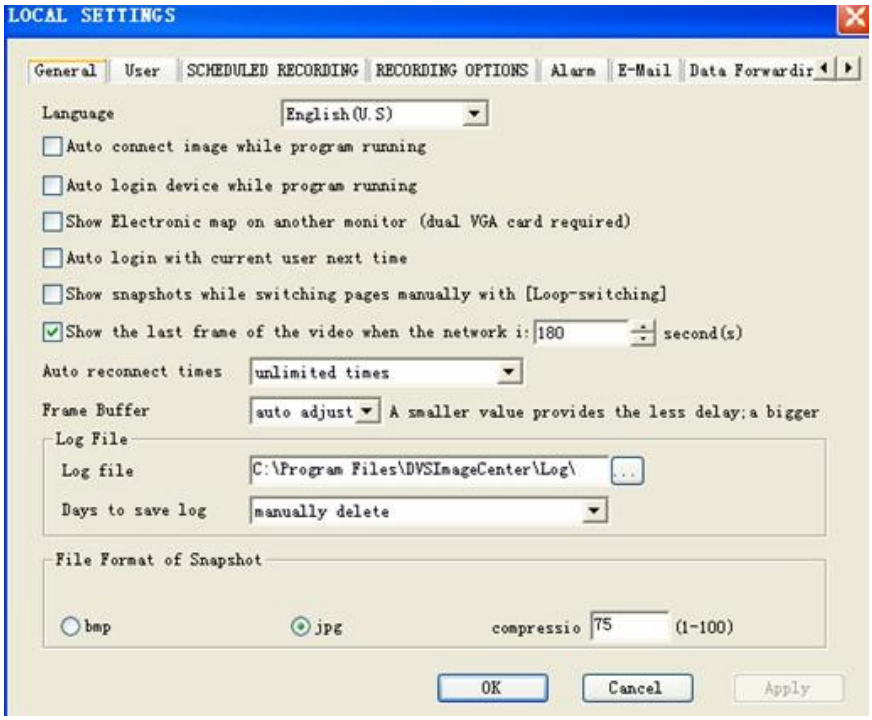


(6) Delete IP camera

Right click mouse on the selected IP camera which want to delete, click 『Delete Device』

6.2.2 User management

Click the button in the bottom of main menu to pop up a local setting window and enter the normal setting attribute page, please refer to the figure:



Click 『user』, it switches to the following figure

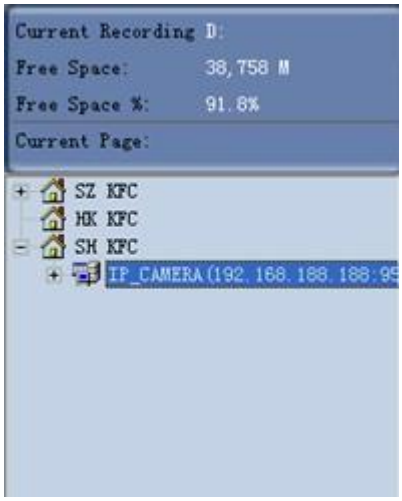
Input user name, password and confirm password.
Set the authorities and click 『Add』.
You can add up to 100 users for different authorities.
The authority of each user can be defined.
Administrator's authority is that can manage and configure all parameters.

6.3 IP Camera live view

6.3.1 Log in and log off IP camera

After add IP camera in the group setting, on the left side of main menu, you can see the director tree.

Double Click on "Group Name", e.g. "SH KFC", it shows IP cameras as below:



Double Click IP camera or right click mouse to select "Log on" or click at bottom of main menu.

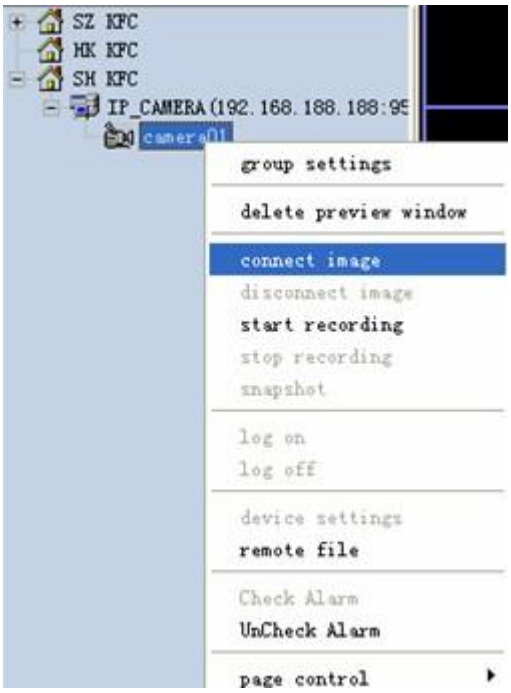
"Log on" status: IP camera keeps online on CMS, but no video connection.

Log off IP camera

Select IP camera, right click mouse to select "Log off" or click .

6.3.2 Live view IP camera

After log in IP camera, Double click camera01 or right click mouse to select "Connect image" or click at bottom of main menu.



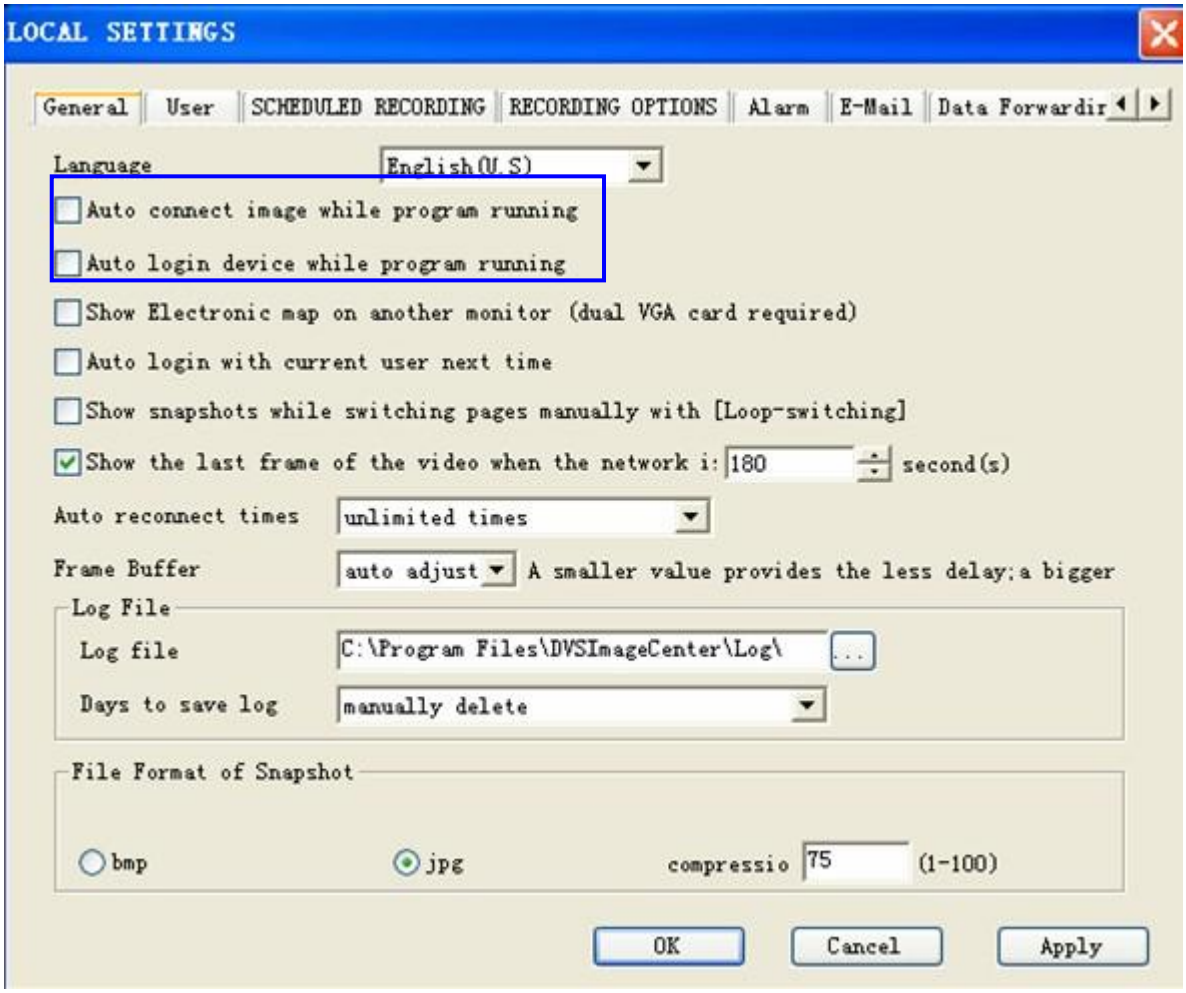
Disconnect Image

Select IP camera, right click mouse to select "disconnect image" or click .

6.3.3 Auto log in IP camera and Auto Connect IP camera

Click the button in the bottom of main menu to pop up a local setting window and enter the "General" attribute page, click "Auto connect image while program running" and "Auto login device while program running"

『Auto reconnect times』When fail to log in IP camera, support automatically re-connect. 0, 25, 75,100 and unlimited times can be defined.



6.4 Remote setup IP Camera

After log in IP camera, select IP camera, right click mouse to choose "device setting" or click to remote setup IP camera or right click

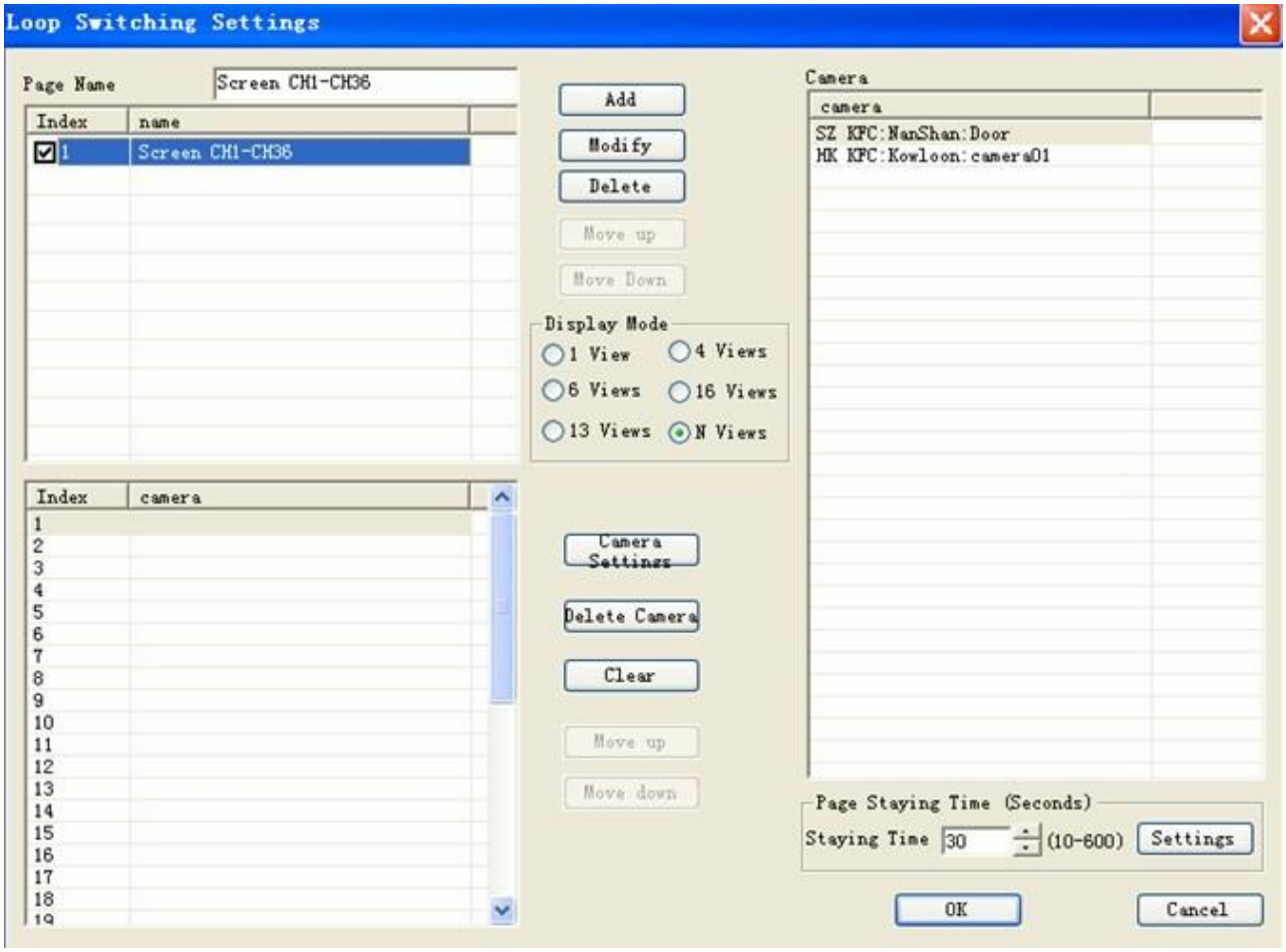
For the IP camera configurations, please refer Chapter 5.

6.5 Multi-view IP camera and control

The system can provide manage and configure 200channels IP cameras. You can live view 36channels in one screen. CMS supports loop switch.

6.5.1 Loop switch

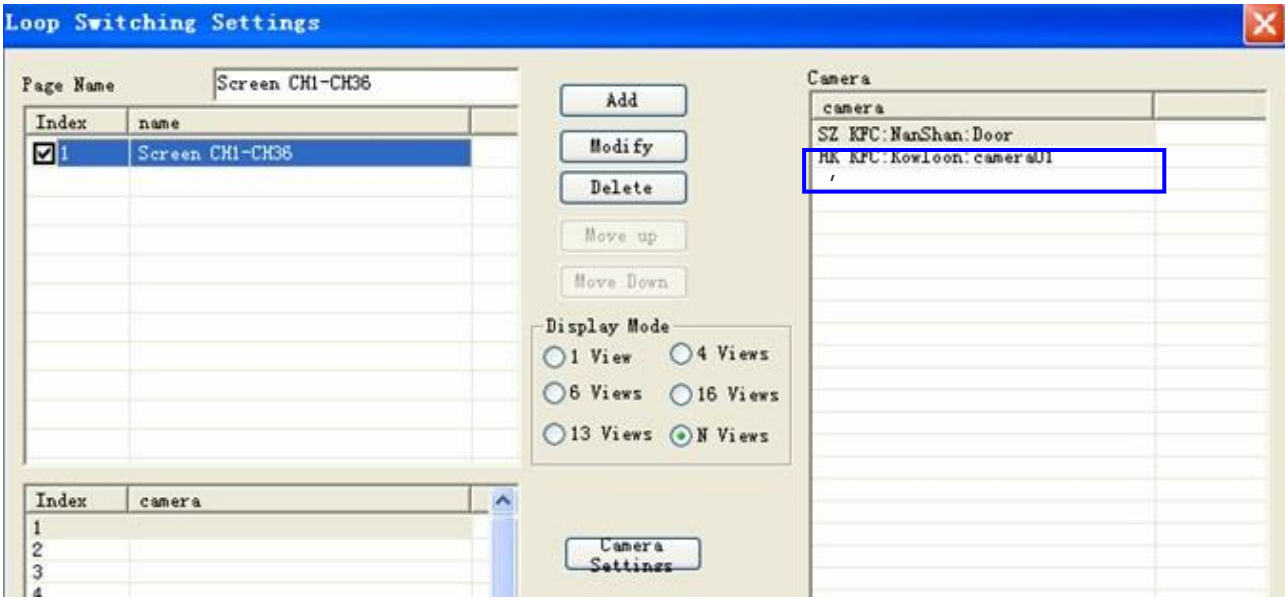
Right click mouse on the IP camera to select "Loop switching settings", it pops up the following figure:



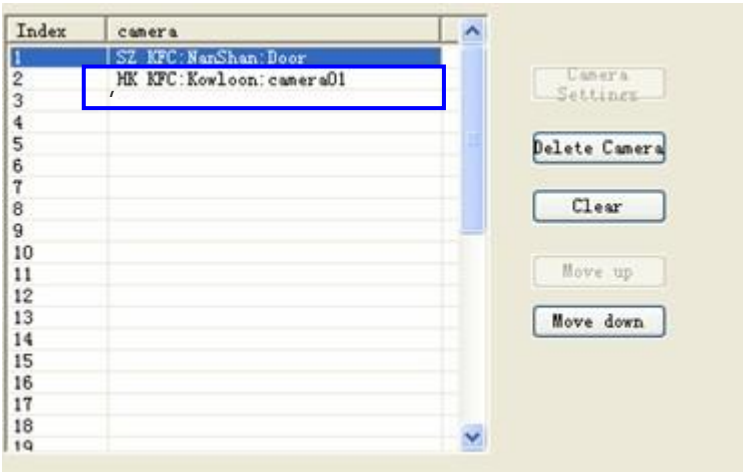
(1) Add page name: after input the name and click "Add"

(2) Select the display mode: 1/4/6/16/13/36 Views, if one screen shows 36ch IP camera, click "N" views.

(3) Add IP camera: double click IP camera from right side "Camera list".



(4)The IP Camera will be added on the left side as follows

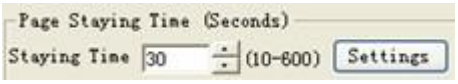


(5) Repeat the third steps until all Ip cameras are added.

(6) You can change the display order by "Move up" or "Move down" button.

(7) Automatically switch page: Users can set interval time between page 1 and page 2. Default settings are 30 seconds.

If more Ip cameras are displayed which are in higher resolution, suggest setting the longer time.



(8) Click "OK" to save changes.

(9) Manually loop switch: Click on the main menu to loop switch.

: Switch to previous screen

: Switch to next screen

6.5.2 Sound play control and two way audio

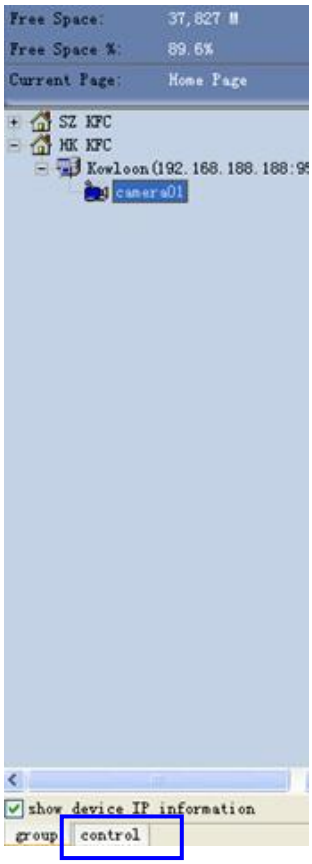
Open the Network Camera's channel video, select video image, click button on the below of the main menu to open the audio intercom. Then re-click this button to close sound.

Note: please make sure the Network Camera has already encoded audio and connect with audio input before the play.

: talk with IP camera, enable it, the icon on Ip camera video changes to .

6.5.3 PTZ control

Open the server's channel video, select the video image, there will be a red frame around the image. Click "Control"



Click "Control", it pops up the following figure:

: Pan left, right, up and down.

Zoom add: Zoom out
Zoom sub: zoom in
Iris add:
Iris sub:
Note: please check the PTZ setting errors and PTZ device errors if the control failed.

Preset position
Open the Network Camera's channel video and select video image.
Add preset position: preset PTZ to a position and input number in the preset position input box, click "preset" button to complete the setting.
Input number in the preset position input box, click "call" to preset the camera.

6.6 Snapshot

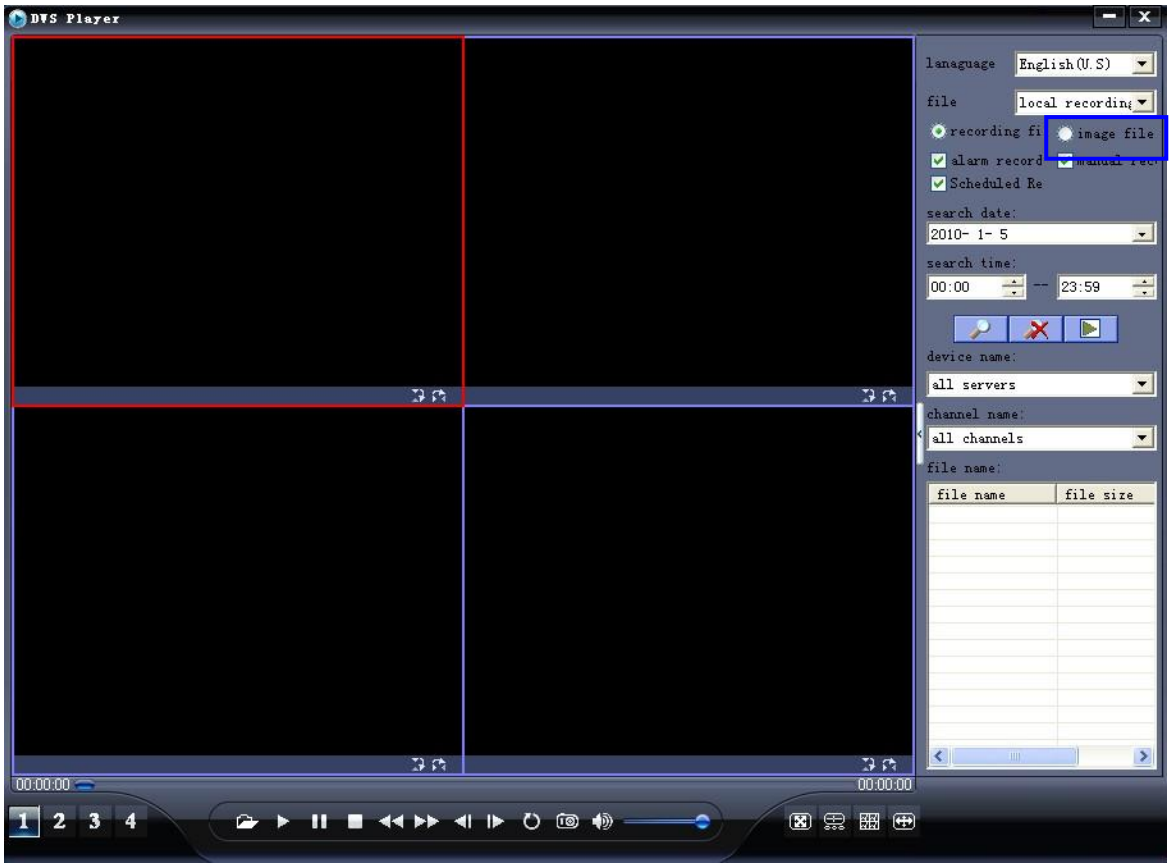
6.6.1 How to Snapshot

Users can manually snapshot images while they are viewing video.
Method 1: Select the "Snapshot" item from the pop up menu by clicking open video image with the right mouse button.

Method 2: Select open video image with left mouse button, and then click button in main menu with left mouse button.

6.6.2 Search snapshot

Click button in main menu to pop up the player menu, select the "Image file" to view images



Search path:

Local record: the files are saved in PC.

Remote download: the files are kept in SD card of IP camera.

Search mode: define the search condition, Search by devices and Search by date.

Click to begin search.

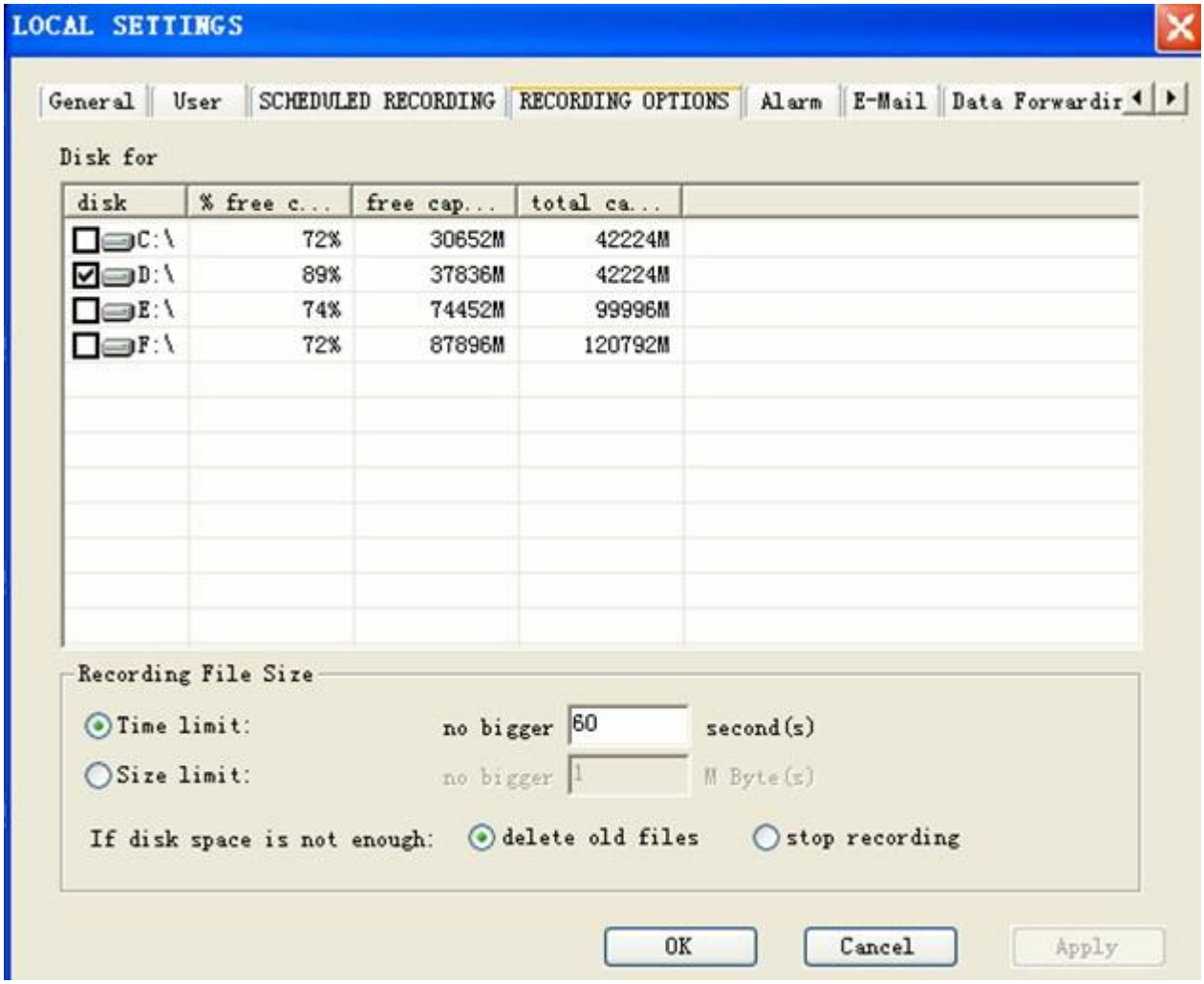
6.7 Record

The system supports 7*24 hours record, manual record, alarm record, pre-record, local/remote record search, and record cover automatically.

6.7.1 General setting (Record path, overwrite, record package)

Setting path:

Click button in main menu to pop up the local setting menu, enter the "Recording Options" attribute page, and choose the storage hard driver in the "Local Record Disk".



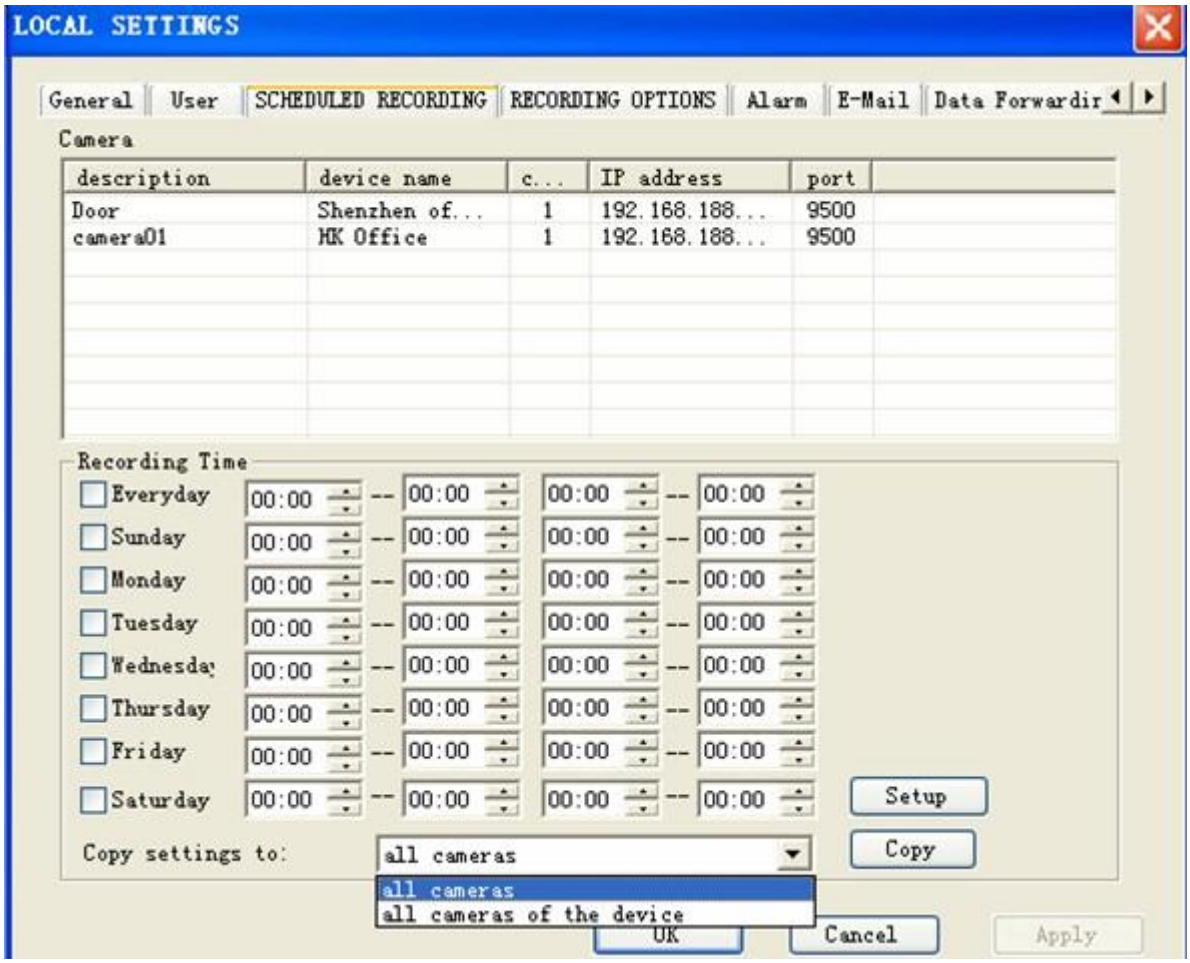
Record file packing size:

Time limit: default setting is that pack a record file per one minute. 1 second to 999,999,999 seconds can be defined.

Size limit: pack the record file by file size. 1Mega Byte to 999,999,999 Mega Bytes can be defined.

6.7.2 Time Schedule record over Management Software

Click button in main menu to pop up the local setting menu, enter the "Scheduled Recoding" attribute page as following figure:



Note:
For enabling timer record function, the Network Camera must enable automatically login server function firstly, please refer to "server management" for details setting
Please do not close video when you enable the timer record, otherwise the system will not record automatically. The client must logouts and re-logins to restore the timer record.

6.7.3 Manual record

Start record and stop Record

Method 1: Click on the bottom of main menu to start record. Re-click to stop the record.

Method 2: right click mouse on "Camera 01" or right click mouse on video image Choose "Start Recording". Choose "Stop Recording" to stop the record.

camera icon change blue color to yellow color.

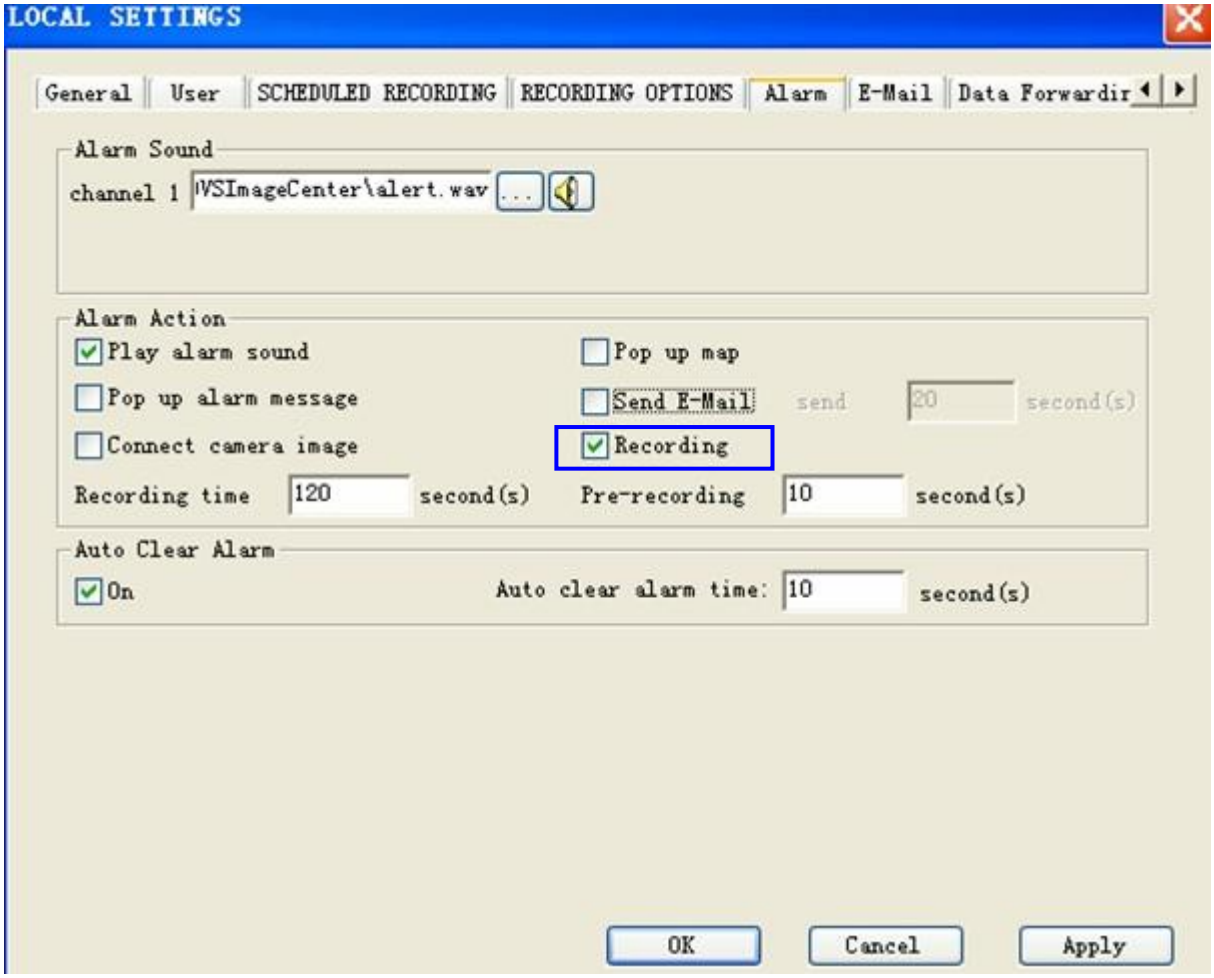
Stop record: right click mouse on "Camera 01" or right click mouse on video image Choose "Stop Recording", camera icon is blue.

Note: Blue camera icon: no record
Yellow camera icon: recording

6.7.4 Alarm record

Enable alarm record setting:

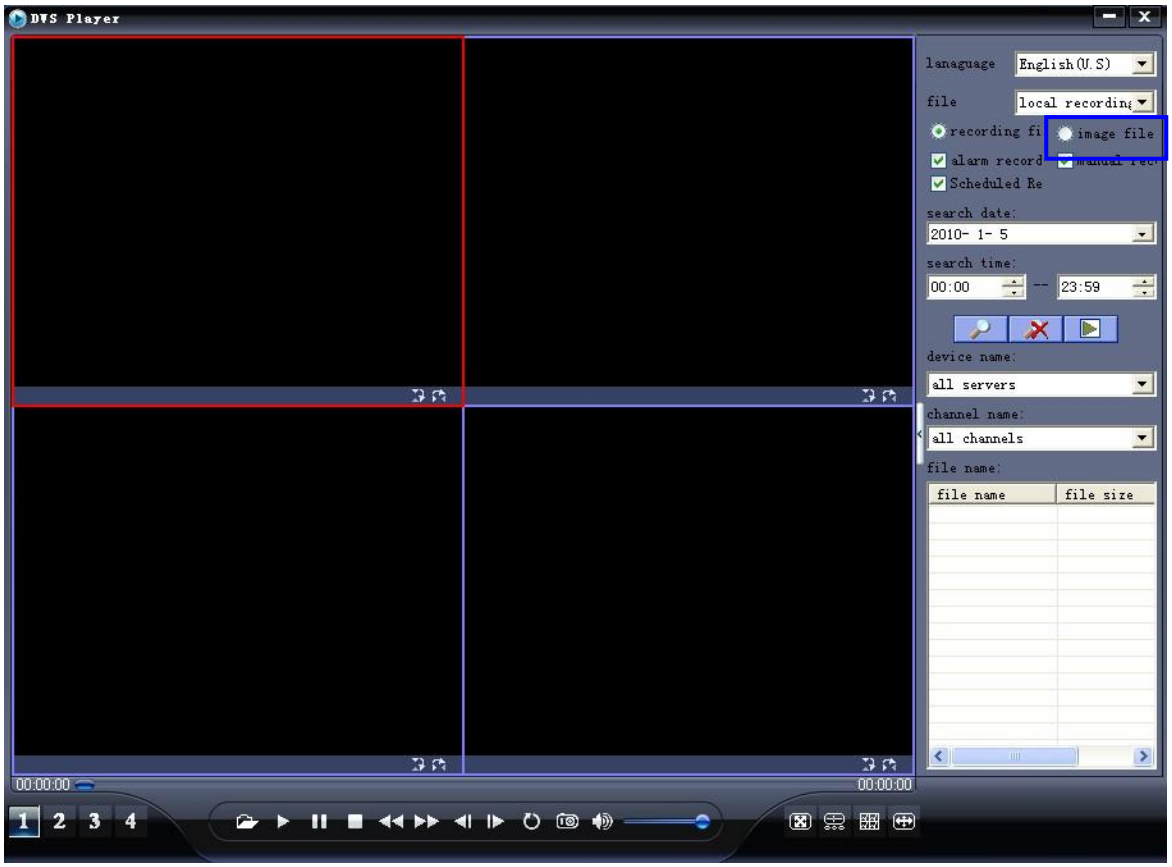
Click button in main menu to pop up the local setting, enter the "Alarm" attribute page; enable alarm record and set the record time.



Alarm Action:
1 Enable Recording
2 Set Recording time: 1-999,999,999 seconds can be defined.
3 Pre-recording: pre-alarm record, 1-999,999,999 seconds can be defined.

6.8 Playback

Click button in main menu to pop up the player menu, select the "record file" to view videos.



Search path:

Local record: the files are saved in PC.

Remote download: the files are kept in SD card of IP camera.

Record type:

Alarm record: includes the motion detection record and sensor alarm record

Manual record

Scheduled record: time schedule record

Search mode: define the search condition, Search by devices and Search by date.

Click to begin search.

: open the record files to playback.

: begin to play

: Pause

: stop to play

: Fast backward

: Forward, the speed can be defined. 2X, 4X, 8, 16X and 1/2X, 1/4X, 1/8X and 1/16X speed

: Single frame backward

: single frame forward

: cycle play

: Snapshot

: play audio

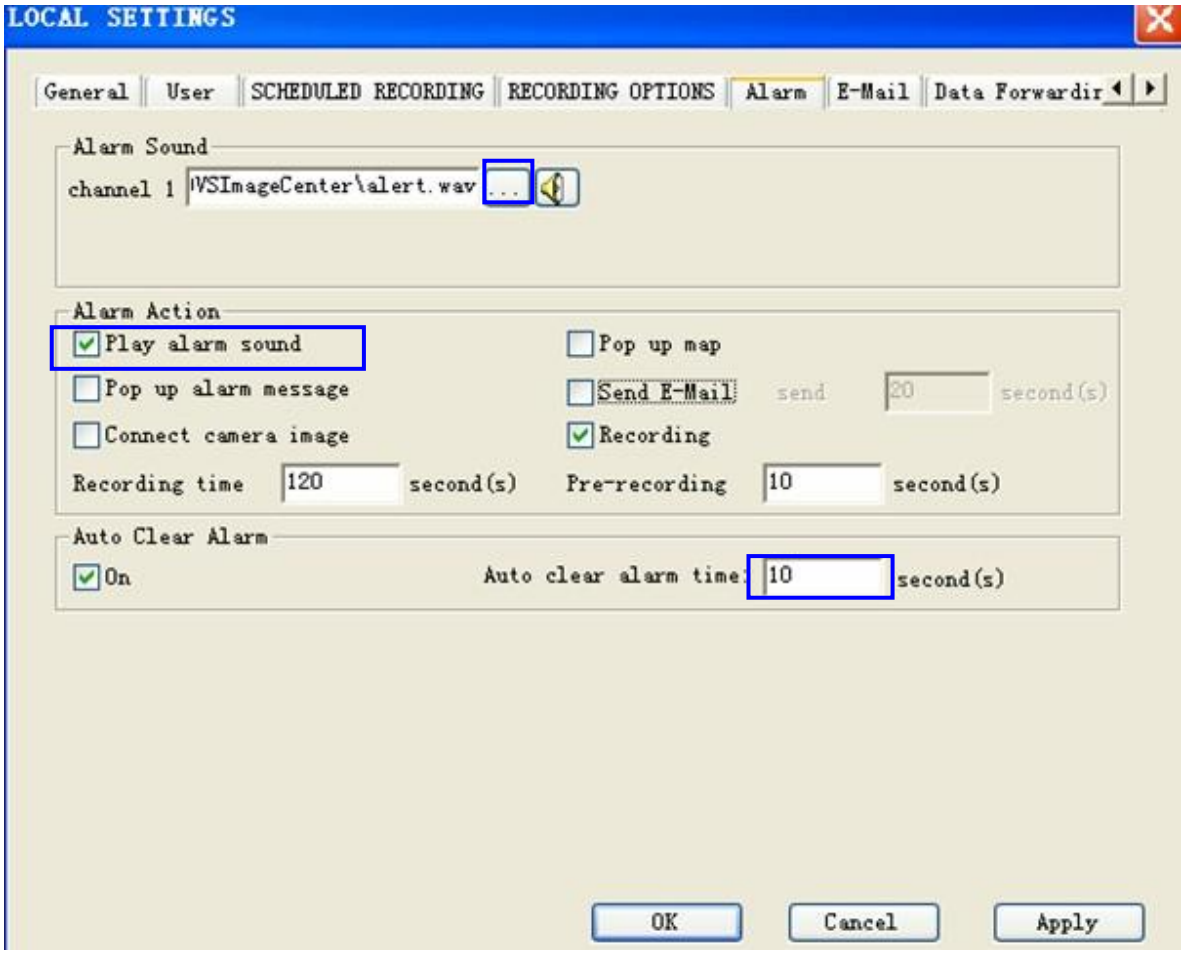
6.9 Alarm management

Alarm action includes:

1. Enable local sound alarm
2. Pop up alarm message
3. Automatically pop up camera video
4. Pop up electronic map
5. Email notification
6. Enable corresponding channel record

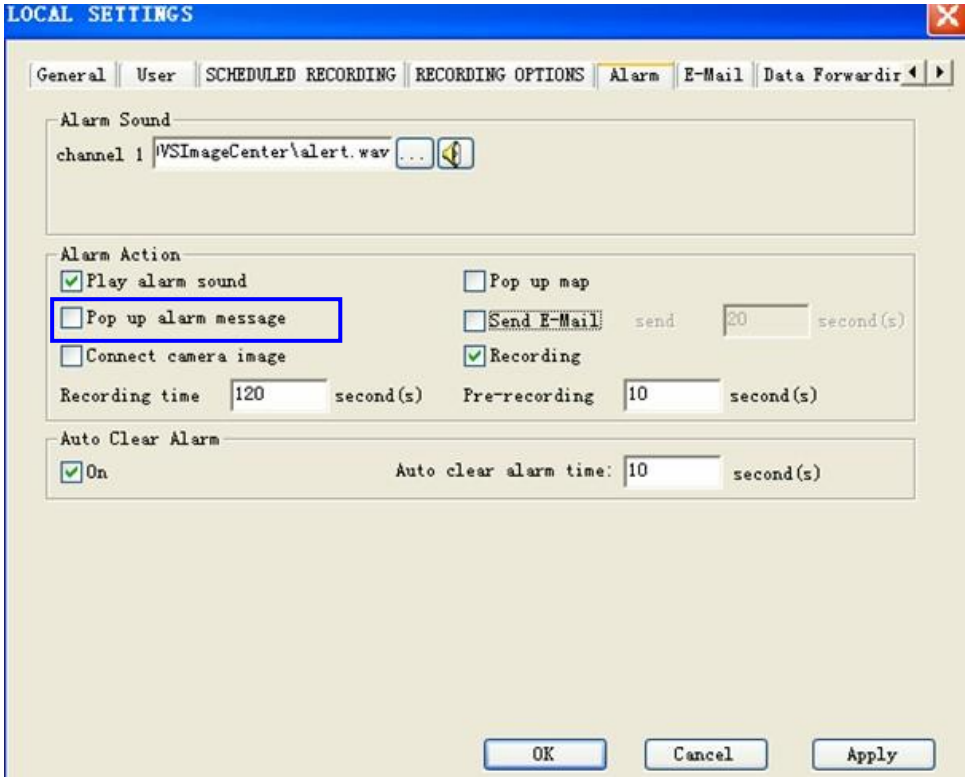
6.9.1 Sound Alarm

Enable " Play alarm sound"
Alarm sound can be defined.
Auto Clear alarm time: after defined time, stop to play alarm sound.



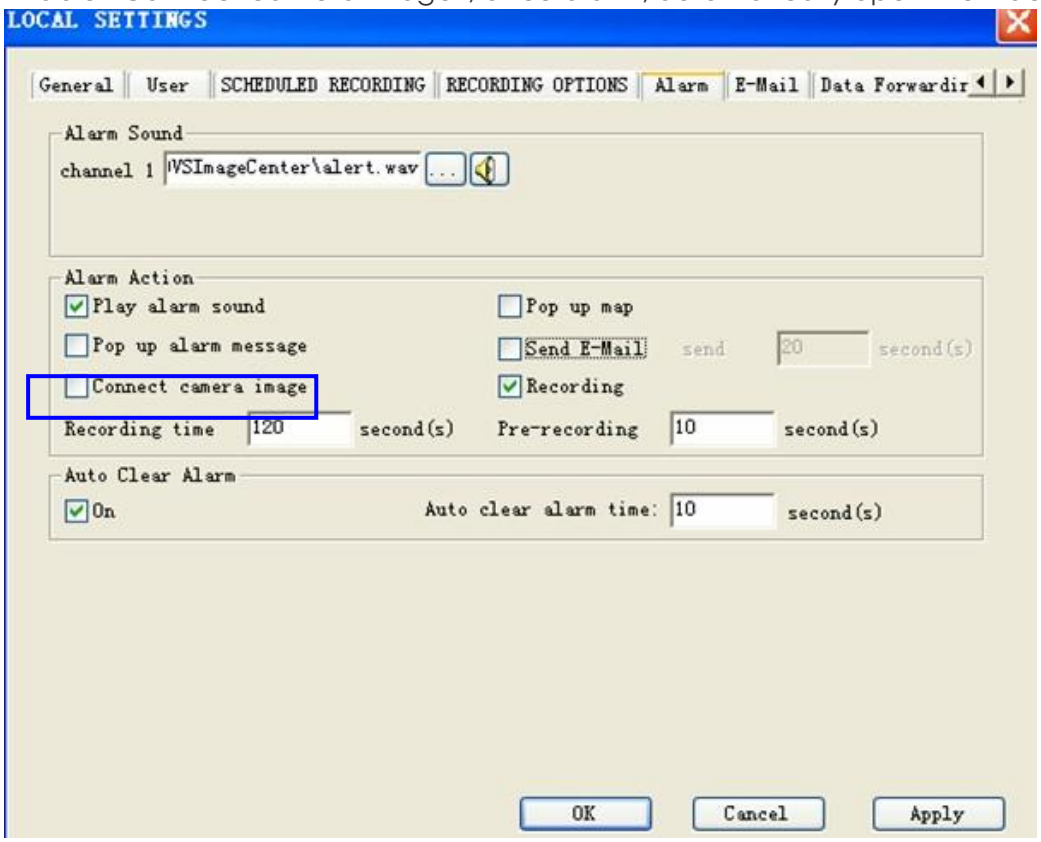
6.9.2 Pop up alarm message

Enable "Pop up alarm message"



6.9.3 Pop up camera video

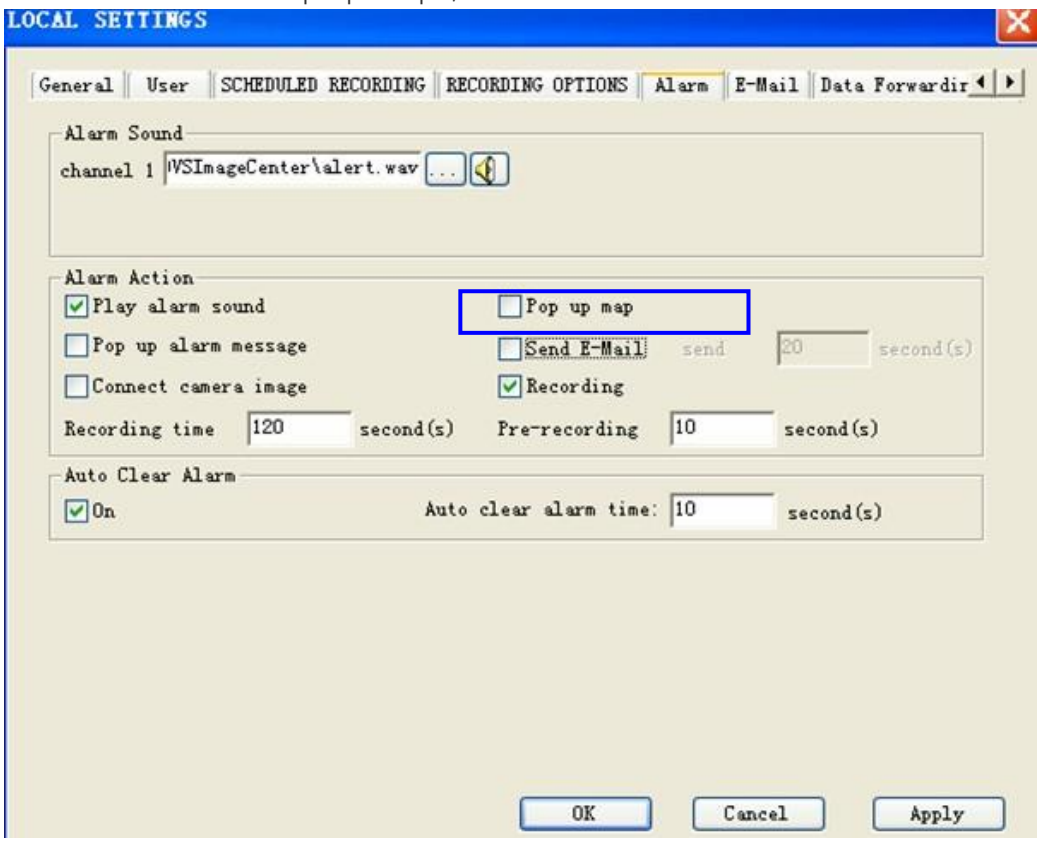
Enable "Connect camera image", once alarm, automatically open the video.



6.9.4 Electronic Map alarm

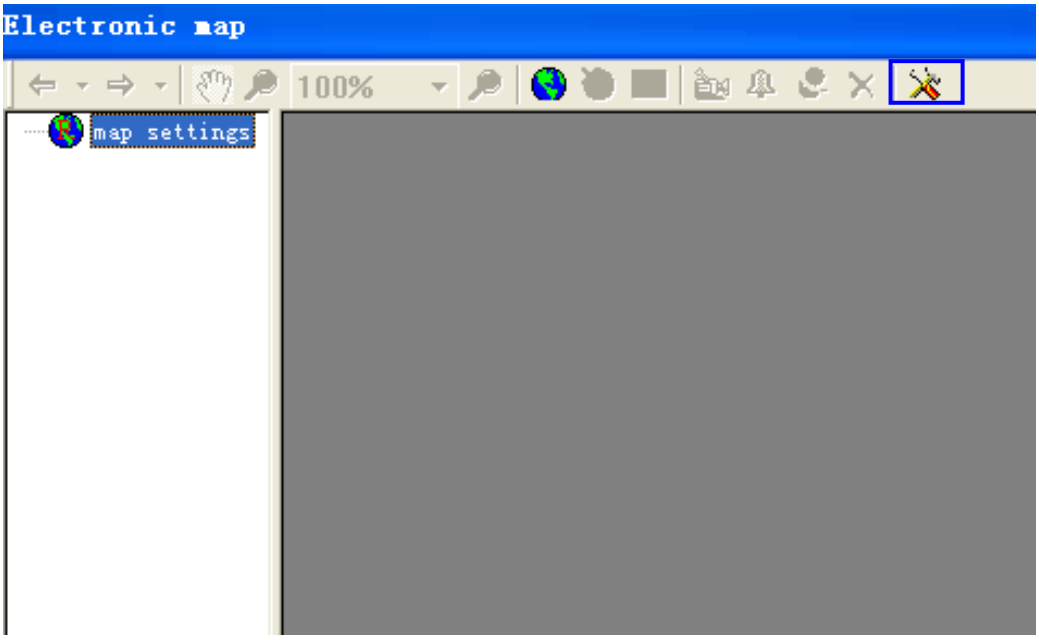
Once alarm, it pops up Electronic Map.

Method 1: Enable "Pop up map",

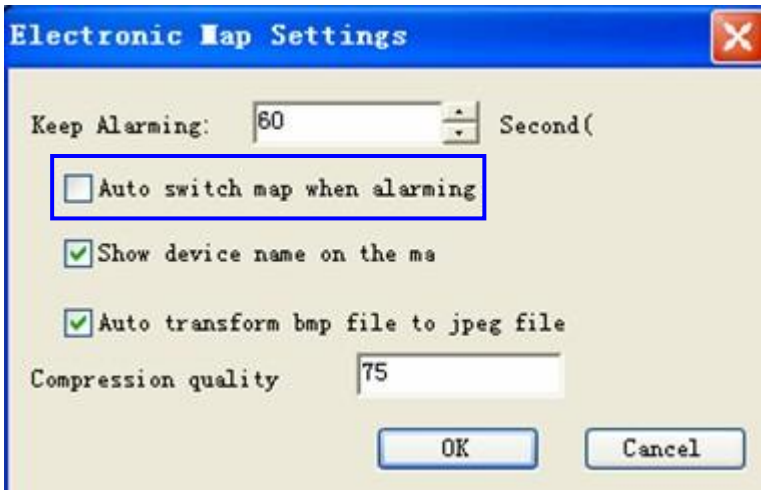


Method 2:

1 Click button in main menu to pop up the electronic map setting as below.



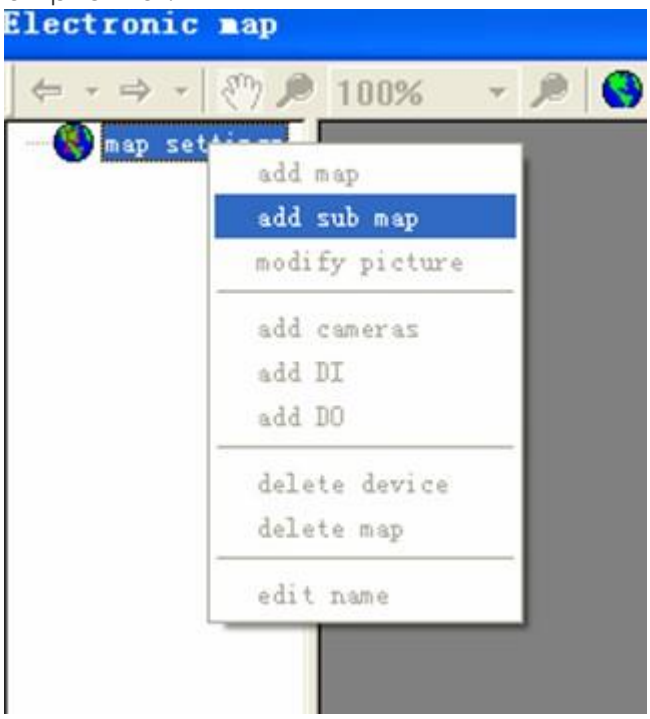
2 Click button, enter the "Electronic Map Settings"



2 Edit Electronic Map

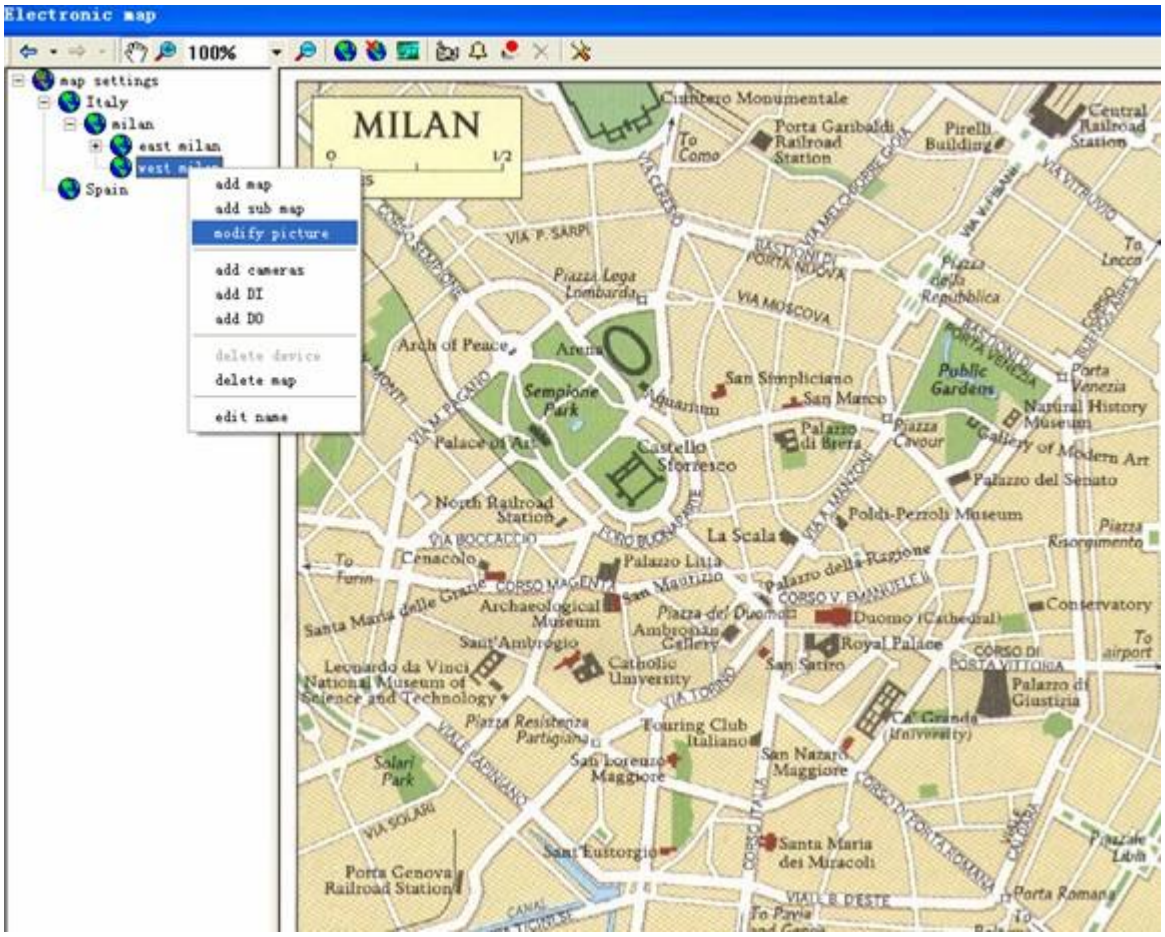
1) Add map

Right click mouse on "Map Setting" to click "Add Sub Map", open the Map in jpeg or bmp format.



2) Modify map

Right click mouse on "Map Name" (e.g. Milan), click modify picture

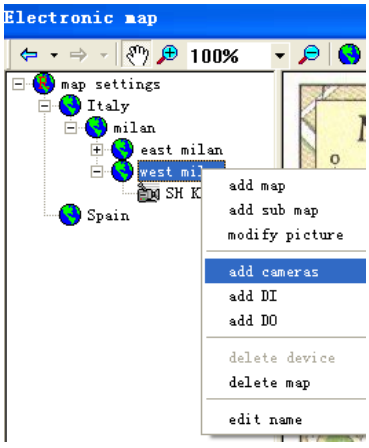


3) Delete map

Right click mouse on "Map Name" (e.g. Milan), click delete map.

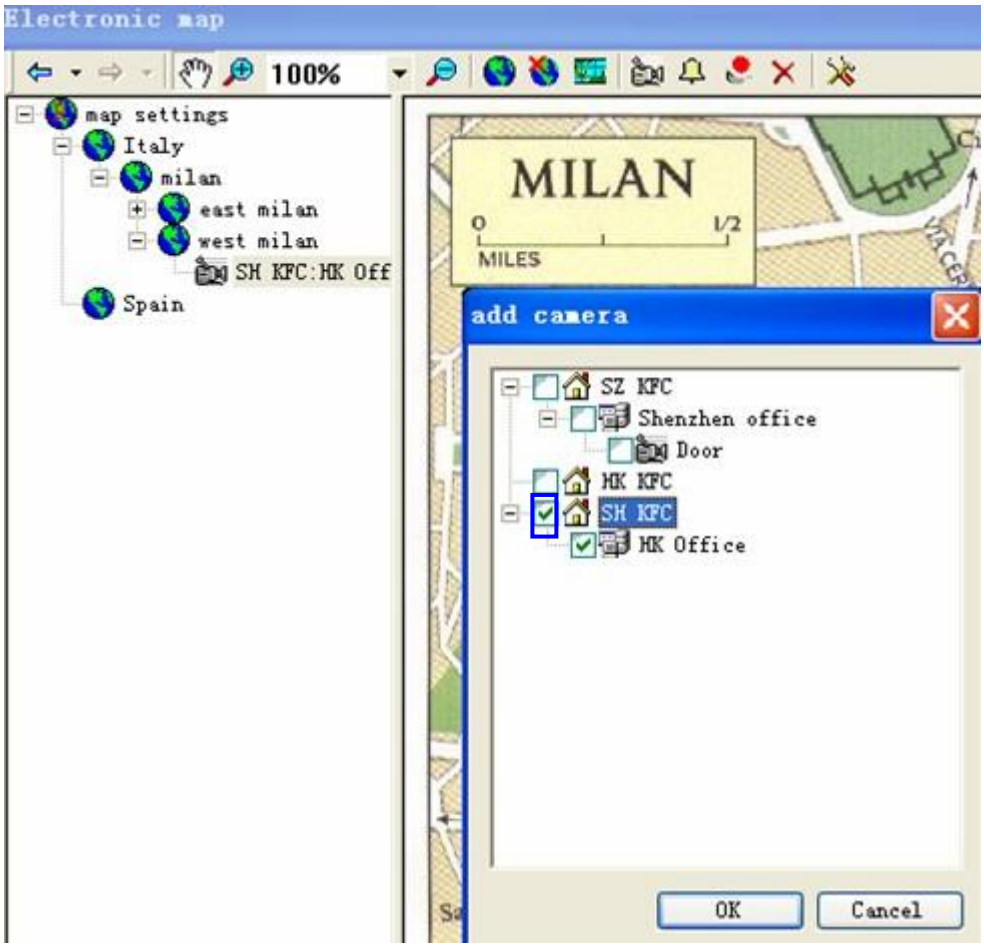
4) Add IP cameras

Click button on the top menu or Right click mouse on "Map name", click "Add cameras".



Choose the IP cameras which you would like to add, one group IP camera or multiple groups IP camera or one IP camera can be selected, Click "OK" to save changes.

You will see icon on the map, drag it to the appointed position on the map.



5) View the video

Double click on IP camera name, it will pop up a window to show the camera video.

6) Add sensor alarm input

Click button on the top menu or Right click mouse on "Map name", click "Add DI". You will see icon on the map, drag it to the appointed position on the map.

7) Add alarm output

Click button on the top menu or right click mouse on "map name", click "Add DO". You will see icon on the map, drag it to the appointed position on the map.

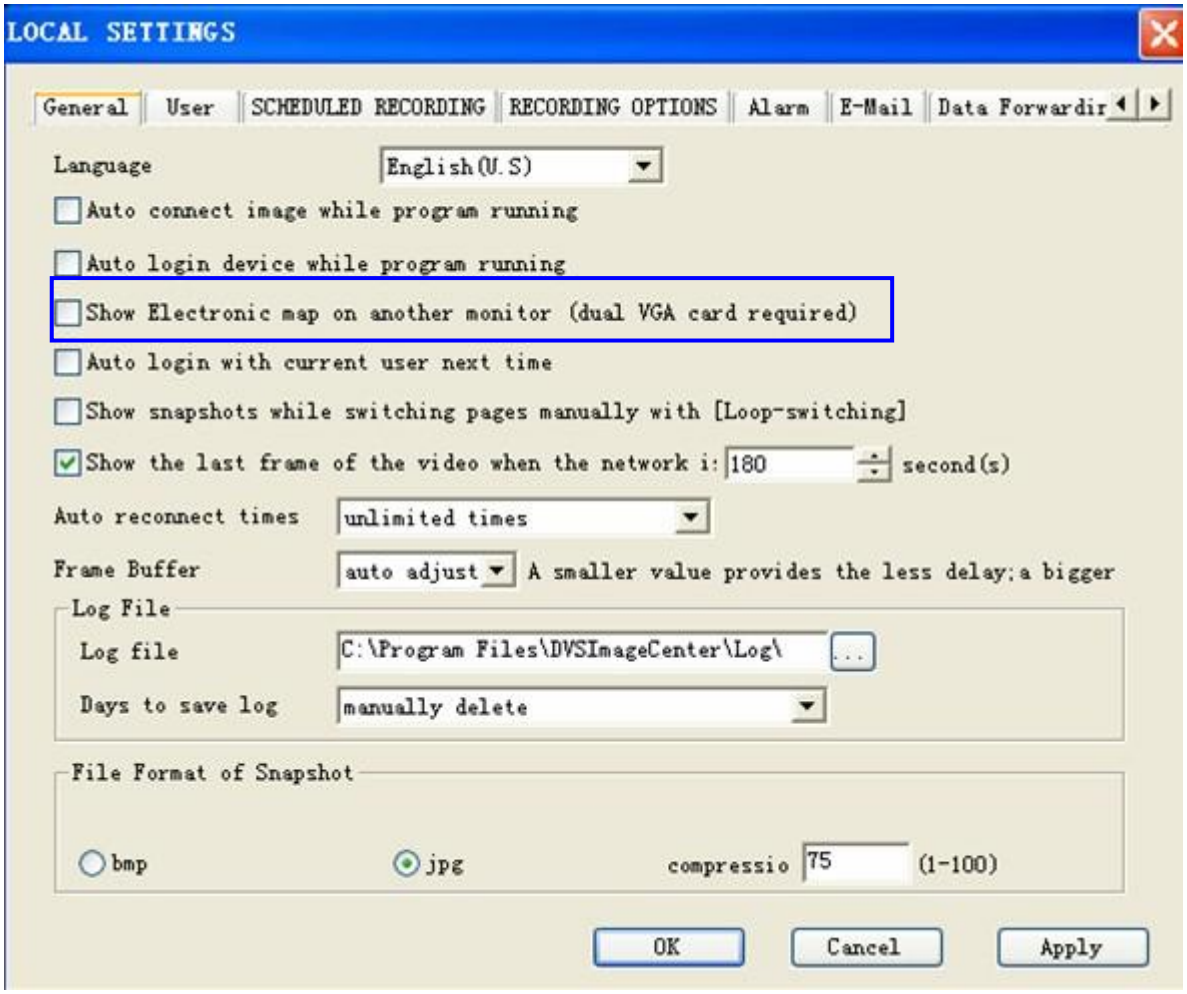
3 Viewing Electronic Map

Click button in main menu to view electronic map..

4 Show electronic map on another monitor

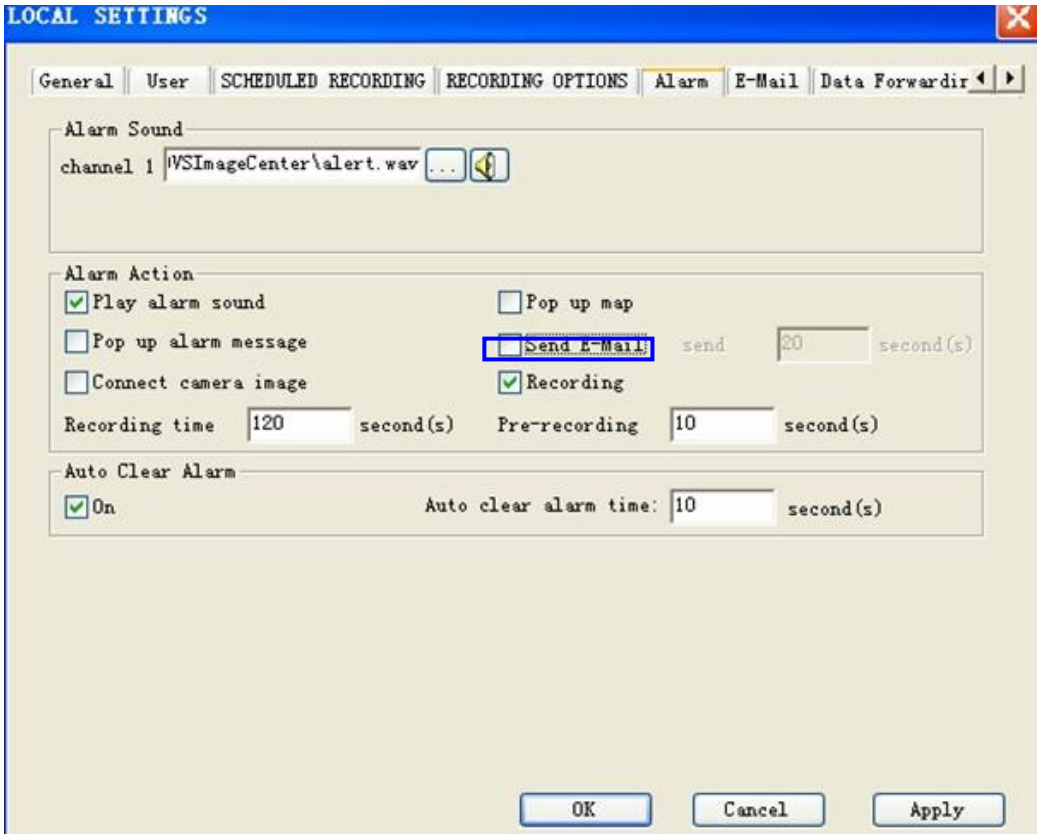
Enable "Show electronic map on another monitor", Live video of IP Camera is displayed by one monitor, electronic map is displayed by another monitor.

Note: Make sure the PC supports dual display card.

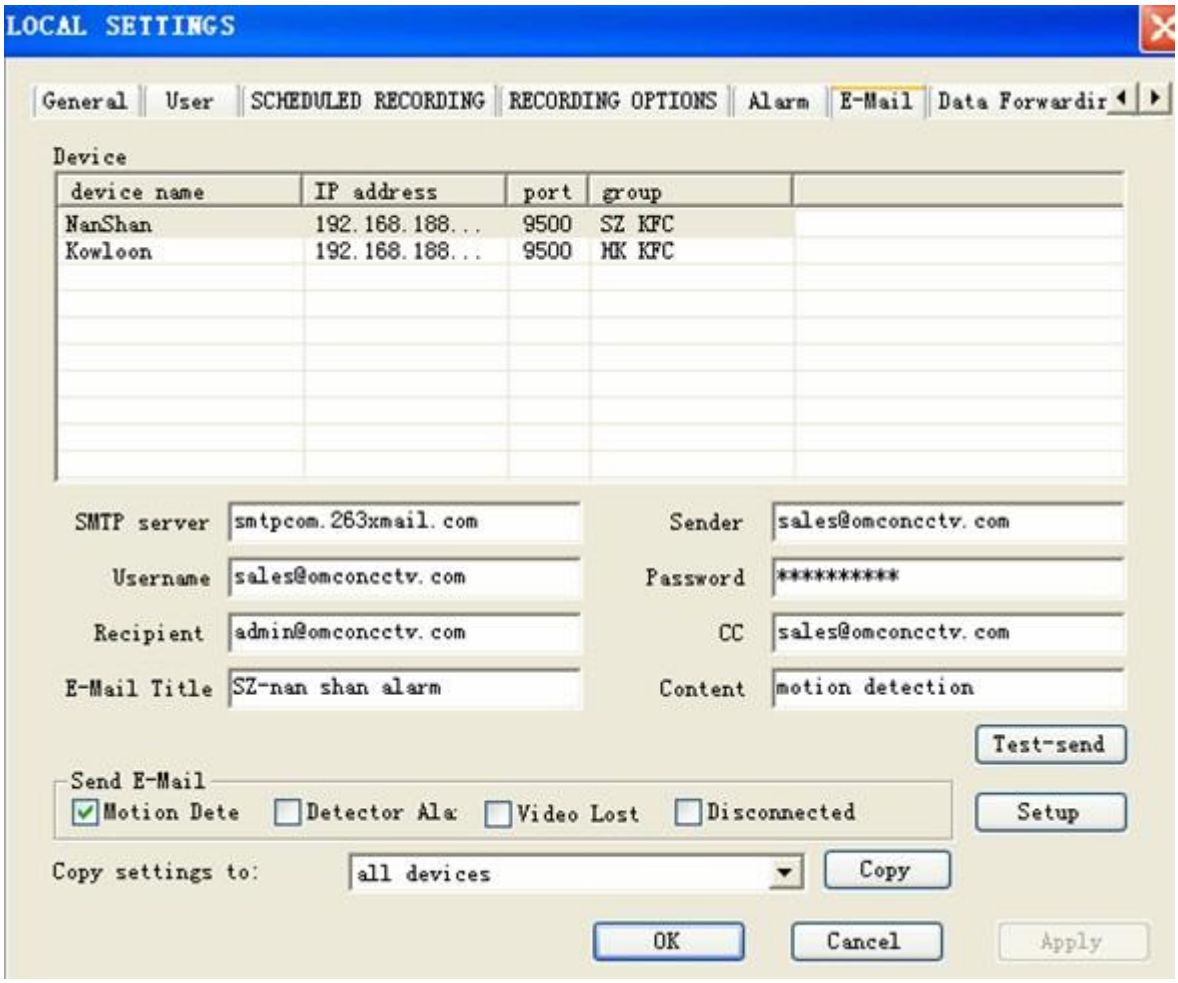


6.9.5 Email notification

If failed to sign in IP camera, video lost, motion detection trigger or sensor alarm trigger, it will send alarm notification by email. Enable "Send E-mail".



Enter into "Email" attribute page as below



(1) 『SMTP Server』 Input the SMTP Server, e.g. smtp.sohu.com.
(2) 『user name』Input the full name of email address.
(3) 『password』Input password to login email address.
(4) 『Sender email』 Input the sending email address. Sending email address should be same as email address of『user name』
(5) 『Receipt』The email address which receive the alarm notification.
(6) 『C.C』to make a copy to email address which can receive the alarm notification
(7) 『E-mail Title』define the email subject.
(8) 『Content』define the email content.

(9) Select the alarm type

Motion Dete: motion detection. When the defined object is moved, send alarm notification.

Detector Ala: sensor alarm. When sensor alarm is triggered, send alarm notification.

Video lost: when video is lost, send alarm notification.

Disconnected: when network connection is failed, send alarm notification.

(10) Copy settings to other devices

All devices: the Email settings will be copied to all IP cameras.

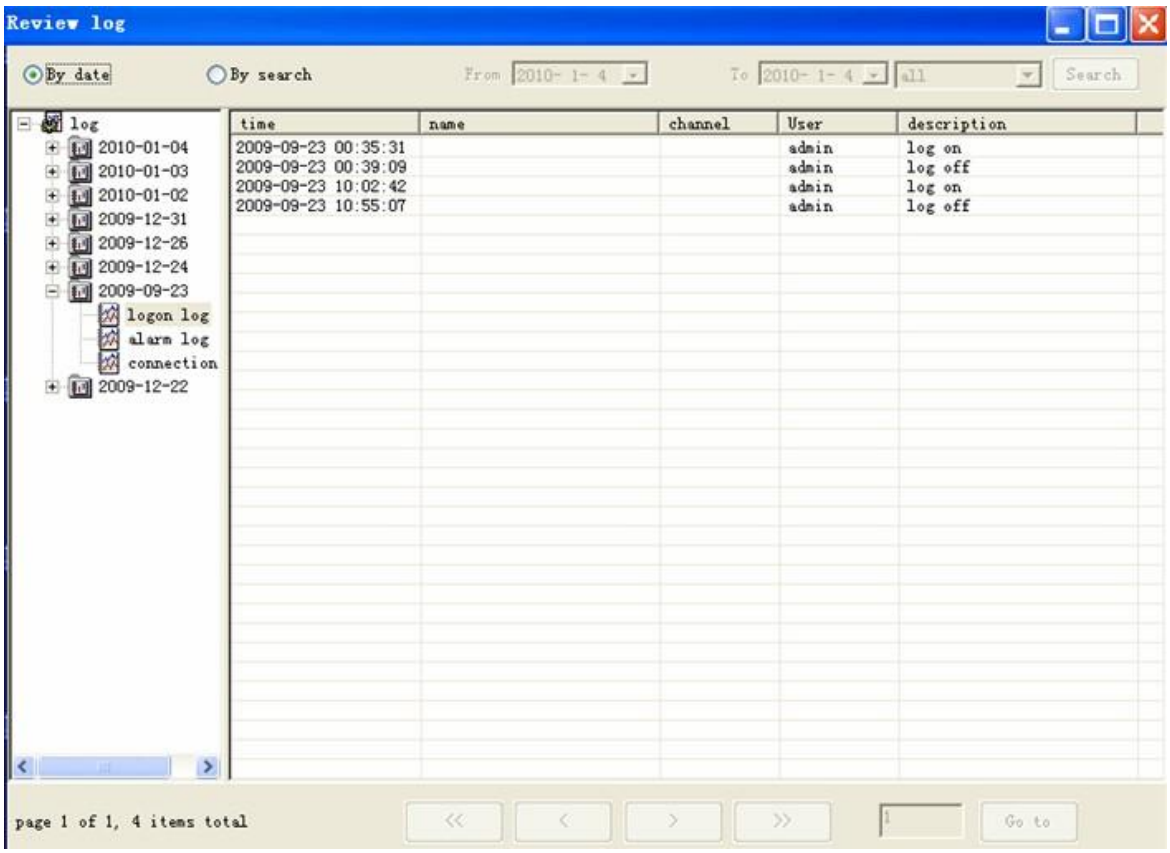
All devices in the group: the email settings will be copied to all IP cameras in the same group. Click 『Copy』and『Apply』to save changes.

6.9.6 History event

History event includes the system event, alarm event and network connection event.

Click button on the bottom of main menu to pop up the following figure
You can search the history event by date or by event type.

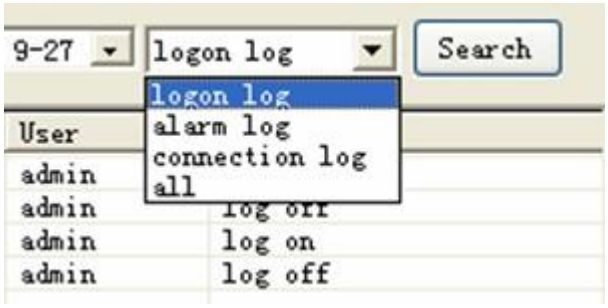
Search the history event by date.



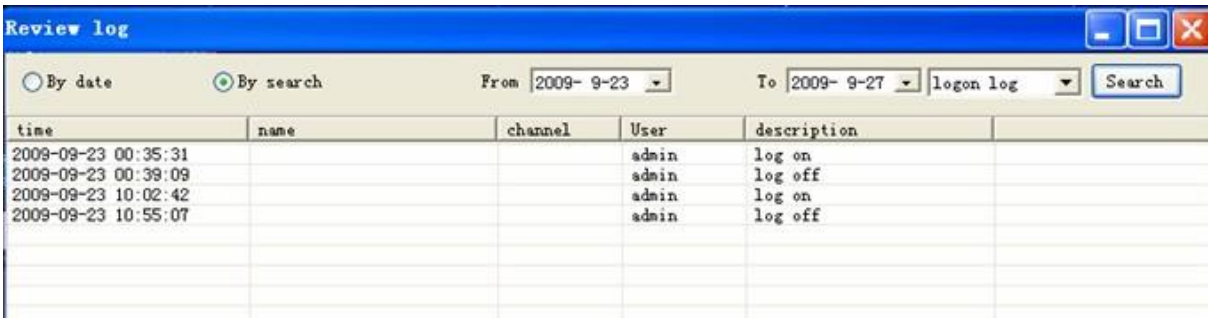
Search the history event by event type.

Input 'start date" or select date from drop down menu and end date.

Select the event type:
logon log: log in event;
alarm log: motion detection, sensor alarm event
connection log: network connection failed event

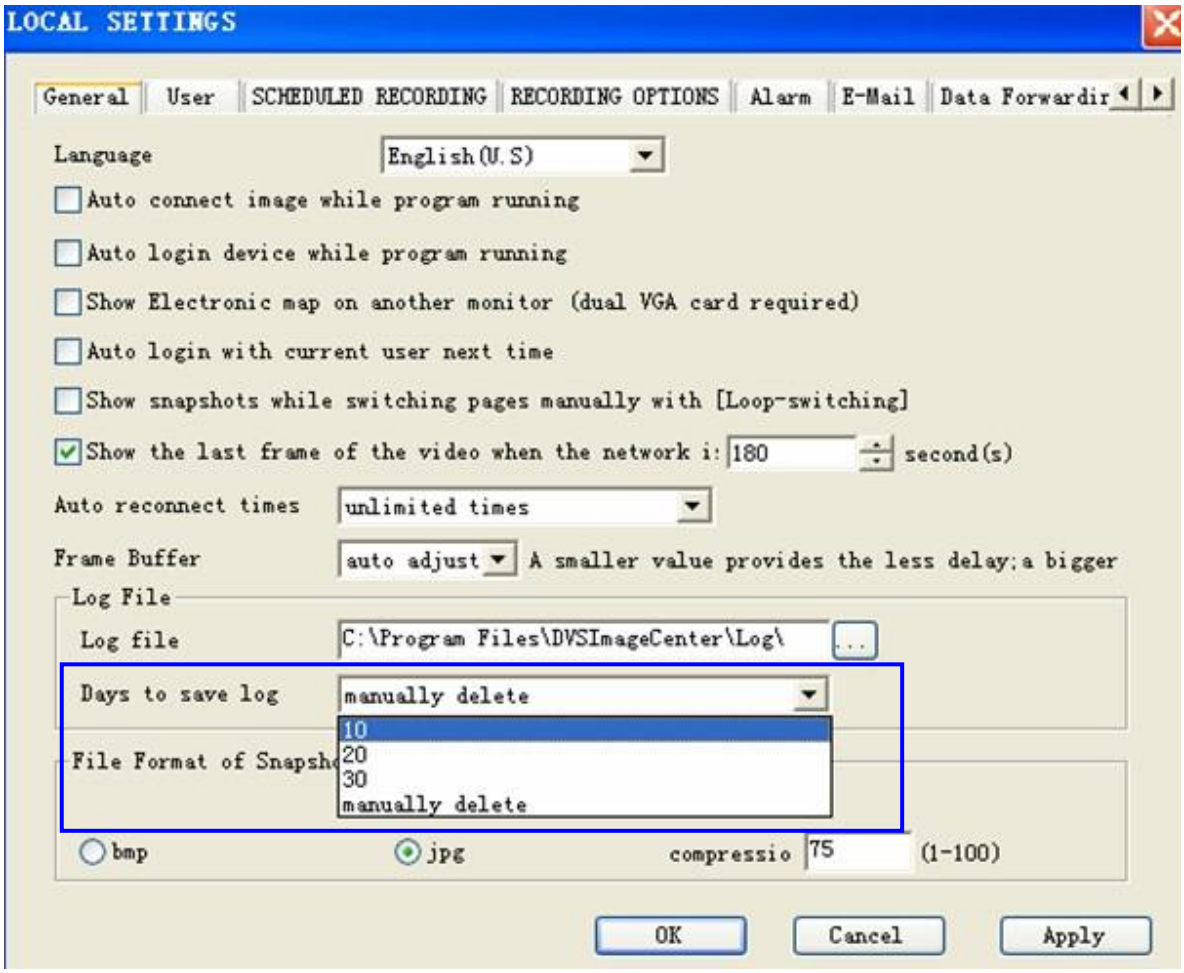


After you define the search conditions, click 『Search』, it shows the following search result:



General Settings for History event

『Days to save log』how many days you would like to save log. 10days, 20days, 30days or manually delete.



6.10 Toolbar

6.10.1 Bottom Toolbar

Part I

: 1/4/9/16/25/36ch Multiview

: Full screen, Video image displayed on the screen will be maximized. Right click mouse to cancel the full screen.

: show quick buttons.

Part II

: log in IP camera

: log off IP camera

: Connect Image.

: Disconnect image.

: manually Snapshot

: manually record

: talk with IP camera, enable it, the icon on Ip camera video changes to .

: Clear alarm

:stop the audio, the icon on IP camera video is grey.

When start the audio, the icon becomes yellow.

Part III

:Manually loop switch

: Switch to previous screen

: Switch to next screen

: view electronic map

: Electronic map settings

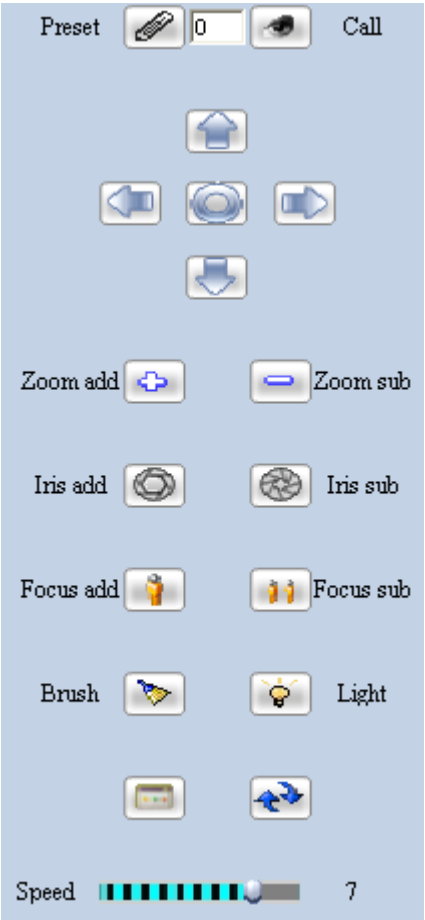
: group settings, add multiple IP cameras

: settings for Management Software

: Check history event

: Playback the record files of IP camera or in PC.

6.10.2 PTZ Control Toolbar



6.10.3 Alarm Control Toolbar

Alarm Output: alarm output status. The indicator will light up if trigger alarm output.

When you click the lamp to light it up, this will trigger the alarm output.

7 Appendix

7.1 FAQ

If you have problems in using, please refer to following steps to check and solve them
Check hardware and interface

Please check you power supply firstly, and then check if your network is connected, lastly check if your cables are well connected. If there is not any problem with them

please see if the lights are flashing properly on the front panel referring to table 3. Continue to next step if all of the following checking items are well.

Upgrade software

Check if the software is the latest version according to the "advanced setting" section. Upgrade it if not. Generally the latest version software will solve some problems and will be more stable than old version software.

Contact technical support

Please contact technical support or browse our website for technical consultation if the problem is not solved.

Frequent problems solutions

a、can not visit Network Camera via browser

Possible reason: network disconnected

Solution: Connect network with PC to check if the network is connected well. Firstly check cable failure, network problems caused by virus, until check network is connecting successfully by using ping command

Possible reason: IP address conflict

Solution: Disconnect the server's network and connect server with PC to reset IP address according recommended operations

Possible reason: IP address in different subnets

Solution: Check the IP address and subnet mask of server and gateway

Possible reason: web port is changed

Solution: Contact network administrator to obtain corresponding port information

Possible reason: unknown

Solution: Reset server to the factory settings and re-connect network. The default IP address of system is 192.168.188.188

b、can not control dome

Possible reason: signal cable is not connected or not connected properly

Solution: Re-connect control cable with dome and server

c、can not view normal image

Possible reason: OS is Win98

Solution: Install DirectX8.0 or later version

d、can not use Media player to play the record file

Solution: Download and install divx common decoder.

7.2 factors influencing system capability

You muse consider the whole system capability issue, factors influencing your system and system optimized settings when you set up your system. Bandwidth including stream rate setting, frame rate, and too many client connections influencing frame rate is the main issue that we need to consider.

Following are the common factors that will influence the server efficiency that we need to concise:

Firstly is your bandwidth. Generally in LAN the bandwidth is not a problem but we must consider the upload bandwidth in WAN or some private networks. If the upload bandwidth is 513k or lower, you would better set the output stream of server within 512k, otherwise there the video or audio will not play fluently.

We must emphasize the ADSL. Usually we are considering the download bandwidth of ADSL, but in the Network Camera application, we are using its upload bandwidth. Thus at this point we have to concern about the upload bandwidth for the system design, for example, for an ADSL with 1.5M download bandwidth, the upload bandwidth is less than 512k. Thus the upload bandwidth is what we have to concern about mostly for network design.

About the image parameter setting according to network please refer to "image advanced setting" in "image setting"

Too many clients viewing from a Network Camera will influence the server capability cause the frame reducing. Consequently, we recommend that the maximum viewing connections is 20 channels.

Capture function provided by Network Camera is using the front-side high definition image capture method. Frequently capture will influence the server capability and cause frame rate reducing.

Too much network load will influence the system capability and cause the audio and video playing not fluently.

CPU capability insufficiency will cause the audio and video playing not fluently.

Wireless transmission will cause the disconnection and server re-connection from client due to the unstable of wireless network.

8 Camera Menu operaton

You can remote control the OSD menu through Internet or OSD menu button.

These operating instructions cover the basic operation of the dome and its features. Before you operate the dome by CMS which is in CD. For the detailed information of CMS, please refer the CMS 6.5.3 .

Below operations are based on using our CMS.

Set up the menu

Access main menu :Input 95, Press Preset, the camera will pop up the menu.
(1) Press Iris Open to confirm selection.
(2) Press Iris Close to cancel selection.
(3) Click ↑ ↓ to select the menu

The following first level menu will appear on the screen:

LENS ↵

ESC	BRIGHTNESS	0~20
	FLK	OFF/ON
DC	DC LEVEL	0~20
	FLK	OFF/ON
	SHUTTER	1/60,1/250,1/700,1/1K,1/1600,1/2500,
		1/5K,1/7K,1/10K,1/30K,1/60K,1/120K
WHITE BAL		
ATW		
MANUAL	RED	0~160
	BLUE	0~160
PUSH		

AGC ↵

ON	LEVEL	0~20
OFF		

DAY/NIGHT ↵

COLOR		
B/W	BURST	OFF/ON
EXT		
AUTO	DWELL TIME	1~15

IMAGE ADJ ↵

SBLC	OFF/LOW/MIDDLE/HIGH	
DNR	OFF/LOW/MIDDLE/HIGH	
SHARPNESS	LEVEL	0~20
H.MIRROR	OFF/ON	
MOTION	AREA	1~4
	DISPLAY	ON/OFF
	SENSITIVITY	1~24
	TOP	8~126
	BOTOM	8~126
	LEFT	4~191
	RIGHT	4~191
	INITIAL	
	RETURN	

MASK	AREA	1~4
	DISPLAY	ON/OFF
	SENSITIVITY	1~24
	TOP	8~126
	BOTOM	8~126
	LEFT	4~191
	RIGHT	4~191
	INITIAL	
	RETURN	
COLOR GAIN	R-Y	0~20
	B-Y	0~20
INITIAL		
RETURN		

GENERAL

CAM ID	0~255	
ID DISPLAY	OFF/ON	
CAM TITLE	OFF	
	ON	UP/DN,LE/RI
LANGUAGE	ENG,CHN	
SYNC	INT	
PROTOCOL	P/D,DEF	
BAUDRATE	2400/4800/9600/19200	
INITIAL		
RETURN		

INITIAL
EXIT